



**PAINTER CERTIFICATION
REFERENCE MANUAL**

SHERWIN-WILLIAMS®



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SHERWIN-WILLIAMS®
Automotive Finishes

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ULTRA
9KTM

Cleaners



SHERWIN-WILLIAMS
Automotive Finishes

AMS

Ultra System™ Surface Cleaner UWC1

Questions? Ask

Go onto www.Sherwin-Williams.com

www.Sherwin-Williams.com

PRODUCT DESCRIPTION

Ultra System Surface Cleaner UWC1 is a waterborne cleaning solution that can be used, as packaged – no mixing or dilution required. UWC1 Surface Cleaner, can be used on OEM topcoats, primers and refinish undercoats to prepare the surface prior to painting. When used on plastic substrates, UWC1 Surface Cleaner minimizes static build-up. Ultra System UWC1 Surface Cleaner can also be used to remove most waterborne basecoats from waterborne spray equipment.

SURFACE PREPARATION

For Use as a Surface Cleaner:

Prior to repair, wash surfaces to be painted including adjacent panels with a mild detergent and water solution to remove heavy deposits of dirt, oil, and grease. Wipe dry with a clean, lint free cloth.

- Saturate a clean cloth with UWC1 Surface Cleaner.
- UWC1 Surface Cleaner can also be applied with a Sherwin-Williams Premium Hand Sprayer (A50100SW)
- Working in small areas, apply to area to be painted including adjacent panels.
- Wipe off with a second clean, dry cloth **before** UWC1 Surface Cleaner is allowed to dry.
- If drying occurs re-wet with UWC1 Surface Cleaner and wipe off with a clean, dry cloth.

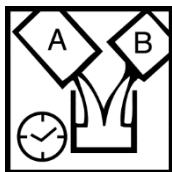
For Use as a Spray Gun / Equipment Cleaner:

- Empty the waterborne spray gun of any remaining waterborne basecoat, rinse, and dispose into an approved waste collection drum dedicated to waterborne waste only. Do **not** mix waterborne waste with solventborne waste.
- UWC1 Surface Cleaner can be used in a dedicated waterborne gun washer or it can also be applied with a Sherwin-Williams Premium Hand Sprayer (A50100SW).
- Thoroughly clean the waterborne spray gun and cup.
- Blow off the interior and exterior of the waterborne spray gun with clean compressed air and towel dry.

SUITABLE SUBSTRATES

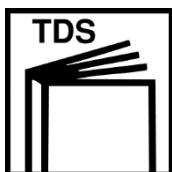
- | | |
|------------------|-------------------|
| • P27/P30 Primer | • Plastic |
| • Surfacer | • Aged Refinishes |
| • OEM Finishes | • Equipment |
| • Bare Metal | |

MIXING:



- **Use as packaged.** No mixing or dilution required. Compliant in all VOC restricted areas.

NOTES

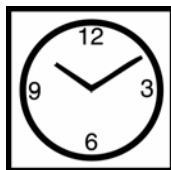


- Ultra System Surface Cleaner is not recommended for use on solvent sensitive substrates such as lacquer, or softening will occur.
- Protect Ultra System UWC1 Surface Cleaner from freezing. If freezing occurs allow Ultra System Surface Cleaner to slowly warm to room temperature and invert the closed container from top-to-bottom several times (hand agitation) before use.



Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

RECOAT



- Make sure Ultra System UWC1 Surface Cleaner has been completely removed and panel is dry before painting.

Regulatory Data	UWC1 is packaged Ready To Spray	
	As Packaged	
	lb/gal	g/l
Density	8.24	987
	% by weight	% by volume
Total Volatiles	100	100
Water	95.5	94.7
Exempt Compounds	2.5	3.1
Organic Volatiles	2	2.2
Percent Non-Volatile	0	0
	lb/gal	g/l
VOC Total	0.16	19
VOC Less Exempt	7.48	897
	lb/gal	kg/l
Volatile HAPS	0	0
VHAPS of Solids	0	0



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing, or applying this product
- Keep product, paint, and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product



SHERWIN-WILLIAMS
Automotive Finishes

AQUA-PREP™

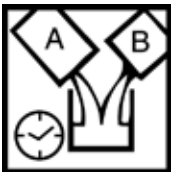
Low VOC Plastic Surface Cleaner SC155

PRODUCT DESCRIPTION:

AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 is a water-based emulsion that contains a surface active “detergent” and a special blend of solvents. It is specifically designed to remove waterborne surface contaminants, and mold release agents on the surface of plastic substrates.

SURFACE PREPARATION:

Wash surfaces to be painted including adjacent panels with a mild detergent and water solution to remove heavy deposits of dirt, oil, and grease.



MIXING:

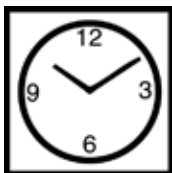
No mixing required in areas with a VOC limit above 0.21lbs/gal.

** If a VOC level of 0.21 lbs/gal is required, AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 must be reduced 1 part SC155 to 3 parts AWX Performance Plus™ OEM Certified Repair Basecoat Reducer 4550001. Please refer to Product Data Sheet AS3186CA for more information.*



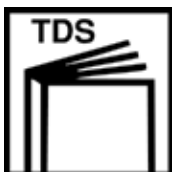
APPLICATION

- Clean all surfaces thoroughly with AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 and a gold nylon scuff pad.
- Clean the areas to be painted as well as the areas that will not receive paint. This will ensure that the surfaces to be painted are free of contaminants, and that contaminants cannot be transferred back to these surfaces through handling the part.
- After cleaning all surfaces, rinse thoroughly to remove all residue.
- Dry with a clean cloth.
- Scuff sand using a gold nylon scuff pad with Liquid Scuffing Gel USP90 paying close attention to small grooves and depressions.



RECOAT

- Make sure AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 has been completely removed and panel is dry before painting.



NOTES

- AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 is not recommended for use on solvent sensitive substrates such as lacquer, as softening will occur.
- For best results maintain an ambient temperature of 70° F when using AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155.
- Protect AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 from freezing. If freezing occurs allow AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155 to slowly warm to room temperature before use.



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AQUA-PREP™ Low VOC Plastic Surface Cleaner SC155



PERSONAL PROTECTION

- For use by trained professionals only.
- Read label, directions, and MSDS before use.
- Use appropriate Personal Protective Equipment while mixing and spraying.

REGULATORY DATA

	As Packaged	
	Lb/Gal	G/L
Density	8.37	1002
	% by Wt.	% by Vol.
Volatiles	97.3	98.4
Water	88.9	89.5
Exempt Compounds	0	0
	Lb/Gal	G/L
VOC Total	0.70	84
VOC Less Exempt	6.72	805
	Lb/Gal	KG/L
HAPs	31.57	3.783

LABEL CAUTION INFORMATION

SC155

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.**



SHER-WILL-CLEAN®

Surface Cleaner

R7K156

PRODUCT DESCRIPTION:

SHER-WILL-CLEAN® R7K156 is a solvent wash to remove wax, oil, grease and silicone contaminant's from all OEM enamel and cured enamel finishes.

TECHNICAL DATA:

• VOC – as packaged	6.40 lbs/gal (767 g/l)	• Weight/gallon	6.4 lbs/gal
• Mixing Ratio	Use at package consistency	• Flash point	50°F TCC
• Freeze Hazard	No		

APPLICATION:

1. Saturate a clean cloth with SHER-WILL-CLEAN® R7K156.
2. Apply to areas to be painted and adjacent panels. Wipe surface thoroughly with SHER-WILL-CLEAN® R7K156 and apply only to one panel at a time.
3. Wipe off with a second clean, dry cloth before SHER-WILL-CLEAN® R7K156 is allowed to dry. If drying occurs, repeat application.
4. Should be used before sanding only.

FEATURES:

1. Solvent cleaner
2. Strong solvent
3. Faster evaporation

ADVANTAGES:

1. Removes wax, oil, grease and silicone.
2. Takes off the toughest wax, oil, grease and removes silicone from cured enamels without harming surface.
3. Evaporates from around molding and chrome (plastic).

BENEFITS:

1. Eliminates fisheye cratering that would require rework or the addition of fisheye eliminator.
2. Faster and thorough removal of contaminants.
3. Eliminates blowout from around chrome requiring rework of affected areas.

NOT TO BE USED ON ACRYLIC LACQUER OR SANDED SURFACES, USE KRIL-KLEEN™.

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R7K158 **ULTRA CLEAN®** Surface Cleaner - Fast

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

Surface Cleaner R7K158 is a solvent wash to remove wax, oil, grease and silicone contaminant's from all OEM enamel and cured enamel finishes.

FEATURES:

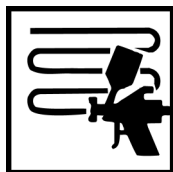
1. Solvent cleaner
2. Strong solvent
3. Faster evaporation

ADVANTAGES:

1. Removes wax, oil, grease and silicone.
2. Takes off the toughest wax, oil, grease and removes silicone from cured enamels without harming surface.
3. Evaporates from around molding and chrome (plastic).

BENEFITS:

1. Eliminates fisheye cratering that would require rework or the addition of fisheye eliminator.
2. Faster and thorough removal of contaminants.
3. Eliminates blowout from around chrome requiring rework of affected areas.



APPLICATION

1. Saturate a clean cloth with Surface Cleaner R7K158.
2. Apply to areas to be painted and adjacent panels. Wipe surface thoroughly with Surface Cleaner R7K158 and apply only to one panel at a time.
3. Wipe off with a second clean, dry cloth before Surface Cleaner R7K158 is allowed to dry. If drying occurs, repeat application.
4. Should be used before sanding only.

NOT TO BE USED ON ACRYLIC LACQUER OR SANDED SURFACES, USE KRIL-KLEEN™.

REGULATORY DATA

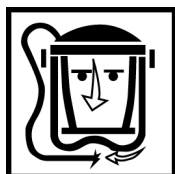
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)		
R7K158		
Regulatory Data	As Packaged	
	lb/gal	g/l
Density		
	% by weight	% by volume
Total Volatiles	100	100
Water	0	0
Exempt Compounds	0	0
Organic Volatiles	100	100
Percent Non-Volatile	0	0
	lb/gal	g/l
VOC Total	6.21	744
VOC Less Exempt	6.21	744
	lb/gal	kg/l
Volatile HAPS	0	0
VHAPS of Solids	0	0



SHERWIN-WILLIAMS®
Automotive Finishes

R7K158
ULTRA CLEAN®
Surface Cleaner - Fast

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

Danger. Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Get medical attention if you feel unwell. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR PROFESSIONAL USE ONLY. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

Emergency telephone number(216) 566-2917



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Automotive Finishes

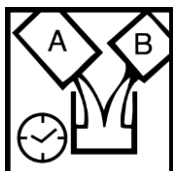
Plastic Surface Cleaner / Anti-static SC159

PRODUCT DESCRIPTION:

Plastic Surface Cleaner / Anti-static SC159 is a solvent based cleaner specifically designed to remove solvent borne contaminants, while deep cleaning the plastic substrate to remove impregnated mold release agents. Plastic Surface Cleaner / Anti-static SC159 also removes static build up before painting.

SURFACE PREPARATION:

Wash surfaces to be painted including adjacent panels with a mild detergent and water solution to remove heavy deposits of dirt, oil, and grease.



MIXING:

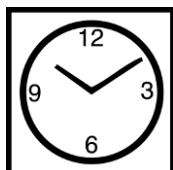
No mixing required in areas with a VOC limit above 0.21lbs/gal.

** If a VOC level of 0.21 lbs/gal is required, Aerosol Plastic Surface Degreaser SC160 can be used*



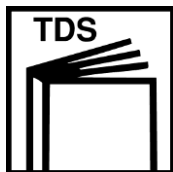
APPLICATION

- Clean all surfaces thoroughly with Plastic Surface Cleaner / Anti-static SC159 and a gold nylon scuff pad.
- Dry excess with a clean cloth.
- Apply a second application following the procedure listed above
- Tack surface to be painted with a clean tack cloth



RECOAT

- Make sure Plastic Surface Cleaner / Anti-static SC159 has been completely removed and panel is dry before painting.



NOTES

- Plastic Surface Cleaner / Anti-static SC159 is not recommended for use on solvent sensitive substrates such as lacquer, as softening will occur.
- For best results maintain an ambient temperature of 70° F when using Plastic Surface Cleaner / Anti-static SC159.



SHERWIN-WILLIAMS®
Automotive Finishes

Plastic Surface Cleaner / Anti-static SC159



PERSONAL PROTECTION

- For use by trained professionals only.
- Read label, directions, and MSDS before use.
- Use appropriate Personal Protective Equipment while mixing and spraying.

REGULATORY DATA

	As Packaged	
	Lb/Gal	G/L
Density	7.07	847
	% by Wt.	% by Vol.
Volatiles	100	100
Water	0	0
Exempt Compounds	0	0
	Lb/Gal	G/L
VOC Total	7.07	847
VOC Less Exempt	6.72	847
	Lb/Gal	KG/L
HAPs	0.00	0.00

LABEL CAUTION INFORMATION

SC159

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. CAN BE ABSORBED THROUGH THE SKIN.

Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. **VAPOR HARMFUL**. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID: IF INHALED:** If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.**



ULTRA
9K™

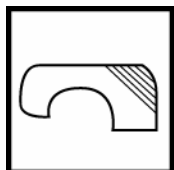
Undercoats



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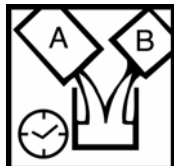
PE995

Corrosion Shield™ LCF Etching
Primer
National Rule Reduction



SUITABLE SUBSTRATES

- Cold Rolled Steel
- Aluminum
- Galvanized Steel
- Cured Body filler / Fiberglass



MIXING



1
PE995
LCF Etching
Primer

+

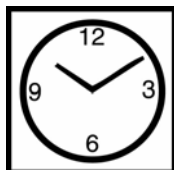
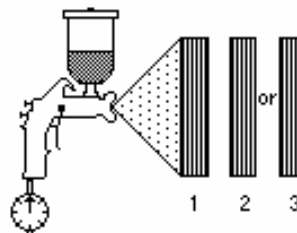


2
ER997
Standard Etching
Reducer



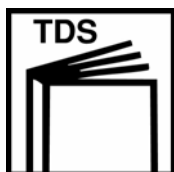
APPLICATION

- Apply 2 – 3 coats.
- Allow each coat to flash 5-10 minutes.
- 7 – 8 psi HVLP/ 30 – 35 psi High Transfer, Gravity Feed
- Recommended dry film thickness = 0.8 – 1.2 mils.



RECOAT

- Allow PE995 to dry at least 15 minutes before applying sealer.
- Dust free in 10 – 15 minutes.
- Time to sand = At least 30 minutes at 75°F. (do not wet sand)
- Recoat up to 7 days. If allowed to dry longer than 7 days, scuff sand with 320 grit or finer, and re-apply one wet coat of PE995.



NOTES

- Pot Life: 7 days
- Store in acid resistant container after activation (non-metallic gun cup).
- Do not use PE995 on cracked/crazed surfaces.
- Minimize application of PE995 over large areas of previously painted surfaces.



PERSONAL PROTECTION

- For use by trained professionals only.
- Read label, directions, and MSDS before use.
- Use appropriate Personal Protective Equipment while mixing and spraying.

PRODUCT AT-A-GLANCE



SHERWIN-WILLIAMS®
Automotive Finishes

PE995

Corrosion Shield™ LCF Etching Primer

National Rule Reduction

PRODUCT DESCRIPTION:

PE995 Corrosion Shield™ LCF Etching Primer is the latest in etching primer technology from Sherwin-Williams Automotive Finishes, and was developed specifically to produce premium quality repairs with Sherwin-Williams Automotive Primers and Sealers. PE995 etches the surface of most bare metal substrates, is used as a pre-treatment coating, and provides outstanding paint adhesion and corrosion resistance, while exceeding the rigorous product testing requirements for OE technical certification. PE995 is a premium, lead and chromate free etching primer for use in all Vehicle Refinish and Fleet Markets nationwide (See AS2748 For Low VOC reduction using ER996).

SURFACE PREPARATION:

Substrates: Cold Rolled Steel, Galvanized Steel, Aluminum, Cured Body Filler / Fiberglass.

1. Clean the surface with SC155 Water Based Surface Cleaner*, followed by UltraClean™ Surface Cleaner R7K158* and wipe dry with clean, dry cloths.

**Check local regulations regarding the use of solvent cleaners.*

Pre-painted Substrates:

1. Wash surfaces thoroughly with mild detergent and water. Rinse well and wipe dry with a clean cloth.
2. Solvent clean with SC155 Low VOC Surface Cleaner, followed by R7K158 Ultra® - Clean Fast Surface Cleaner*, and wipe dry with a clean, dry cloth.
3. Sand repair area and featheredge using 180, 220, and finish with 320 grit treated sandpaper on a random orbital sander.

Note: Minimize application onto painted substrates. Apply to bare metal areas and bare metal sand throughs by blending out coats of PE995 beyond featheredge.

**Check local regulations regarding the use of solvent cleaners.*

REGULATORY DATA*

	As Packaged		As Applied	
	G/L	Lbs/Gal	G/L	Lbs/Gal
VOC Total	641	5.35	742	6.19
VOC Less Exempt	641	5.35	747	6.23
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	1.14	0.07	2.3	0.14
	Wt.%	Vol.%	Wt.%	Vol.%
Volatiles	58.3	75.9	82.3	91.6
Water	0	0	0.7	0.6
Exempt Compounds	0	0	0	0
	G/L	Lbs/Gal	G/L	Lbs/Gal
Density	1100	9.18	909	7.59



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Automotive Finishes

UPO7229

PLASTIC ADHESION PROMOTER - CLEAR

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

UPO7229 Plastic Adhesion Promoter is a single-component, non-sanding, fast-drying adhesion promoter designed for refinishing thermoplastic bumper covers and other exterior and interior plastics. UPO7229 may be topcoated with Sherwin-Williams Premium Undercoats or ULTRA 7000® Basecoat. Additionally, UPO7229 can be mixed together with ULTRA 7000® Basecoat (unreduced / non-catalyzed) or P30 SpectraPrime® Color Primer Sealer, to create a tinted adhesion promoter to help with coverage on bare plastics.

SURFACE PREPARATION:

A clean substrate is essential to product performance. It must be clean and free of mold release agent.

Non-Painted/Non-Primed new plastic parts or bumpers:

1. Perform a substrate test. Using P600, dry sand a small area on the inside of the plastic part. If the part powders, it must be sanded before proceeding to step 2. If substrate gums up during sanding, proceed directly to step 2.
2. Clean all surfaces (back and front) with SC155 Low VOC Surface Cleaner along with a gold nylon scuff pad. Thoroughly rinse with clean water and wipe dry.
3. Scuff sand using a gold nylon scuff pad along with USP90 Liquid Scuffing Gel, paying close attention to small grooves and depressions.
4. Thoroughly rinse off the scuffing gel with clean water and thoroughly dry the surface.
5. Thoroughly clean the plastic substrate with FA1XPC Plastic/Anti-Static Cleaner and a gold scuff pad. Dry excess material with a clean cloth and re-apply FA1XPC, followed by wiping the part dry with a clean cloth.

See the appropriate [Ultra 7000®](#) or [AWX Performance Plus™](#) Best Demonstrated Practices for Primed and Unprimed Plastic Parts Refinishing for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.

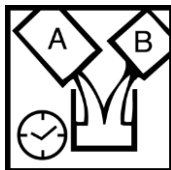
SUITABLE SUBSTRATES:



- Exterior Grade Thermoplastic Polyolefin – TPO
- Rigid, semi-rigid plastic parts and bumper covers
- **NOTE:** Do not use UPO7229 for vinyl plastic or for polycarbonate, the solvent in the product will weaken the plastics.

MIXING:

Stir or shake thoroughly and strain before using. Do not stir contents with a metal stick. Do not agitate contents on mixing machine.



There are four options for using UPO7229 Plastic Adhesion Promoter:

OPTION 1) UPO7229 – Ready to Spray

1. Apply P30 or P27 SpectraSeal® Color Primer Sealer
2. Adhesion Promoter / Sealer / ULTRA 7000® Basecoat or AWX Performance Plus™ Basecoat / Clearcoat

OPTION 2) UPO7229 and P30 SpectraPrime® Color Primer Surfacer – 4:1

1. Mix 4 Parts UPO7229 to 1 Part P30 tint or intermix (unreduced) and apply.
2. Optional: : For best performance – Apply P30 or P27 SpectraSeal® Color Primer Sealer
- P30 Tinted Adhesion Promoter / Sealer (Optional) / ULTRA 7000® Basecoat or AWX Performance Plus™ Basecoat / Clearcoat

OPTION 3) UPO7229 and ULTRA 7000® Basecoat – 3:1

1. Mix 3 Parts UPO7229 to 1 Part ULTRA 7000® Basecoat tint or intermix (unreduced) and apply.
- ULTRA 7000® Tinted Adhesion Promoter / ULTRA 7000® Basecoat / Clearcoat

OPTION 4) UPO7229 – Ready to Spray

1. Apply UPO7229
- Adhesion Promoter / ULTRA 7000® Basecoat / Clearcoat



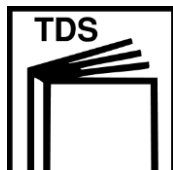
SHERWIN-WILLIAMS®
Automotive Finishes

UPO7229

PLASTIC ADHESION PROMOTER - CLEAR

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

NOTES:



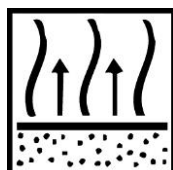
- Clean equipment immediately with R7K156, or R7K158. **DO NOT USE 4600800.**
- UPO7229 is **not** recommended for vinyl plastics or polycarbonate.
- UPO7229 can not be tinted with P27 SpectraPrime® Color Primer Surface
- UPO7229 can be taped for two-toning in 10-20 minutes.

APPLICATION:



- Apply one medium wet, even coat of UPO7229
- 6-8 psi HVLP, or 35-45 psi Conventional, at the spray gun
- Dry Film Thickness of 0.2-0.4 mils. **DO NOT EXCEED 0.4 MILS DRY FILM THICKNESS.**
- For best results, clean spray gun with R7K156 or R7K158 immediately after use. **DO NOT USE 4600800.**

RECOAT:



- Allow UPO7229 Plastic Adhesion Promoter to dry at least 10 minutes.
- If sand scratch filling is desired apply sealer after UPO7229.
- UPO7229 should be topcoated within 1 hour to ensure proper adhesion and avoid surface contamination.
- If allowed to dry over 24 hours, wash with hot water and mild detergent, rinse with clean water, dry thoroughly, and continue with repair process.
- *Do not use solvent cleaners on UPO7229 after applying.*
- If UPO7229 is allowed to dry over 7 days, scuff sand with 400 grit or finer sandpaper and re-apply.
- Recoat with P30/P27 SpectraPrime® Color Primer Sealer or ULTRA 7000® Basecoat.

REGULATORY DATA:

UPO7229 PLASTIC ADHESION PROMOTER - CLEAR						
	OPTION 1) UPO7229 – Ready to Spray		OPTION 2) UPO7229 and P30 SpectraPrime® Color Primer Surface – 4:1		OPTION 3) UPO7229 and ULTRA 7000® Basecoat – 3:1	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)						
Regulatory Data	OPTION 1) As Packaged		OPTION 2) As Applied		OPTION 3) As Applied	
	lb/gal	g/l	lb/gal	g/l	lb/gal	g/l
Density	7.25	868	8.41	1007	7.38	844
	% by weight	% by volume	% by weight	% by volume	% by weight	% by volume
Total Volatiles	95.0	96.0	73.4	86	88.8	91.3
Water	0.0	0.0	0.0	0.0	0.0	0.0
Exempt Compounds	0.0	0.0	0.0	0.0	0.0	0.0
Organic Volatiles	95.0	96.0	73.4	86	88.8	91.3
Percent Non-Volatile	5.0	4.0	26.6	14	11.2	8.7
	lb/gal	g/l	lb/gal	g/l	lb/gal	g/l
VOC Total	6.88	824	6.17	739	6.55	784
VOC Less Exempt	6.88	824	6.17	739	6.55	784
Hazardous Air Pollutants (Clean Air Act, Section 112(b))						
	lb/gal	kg/l	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	6.84	0.82	5.8	0.695	5.5	0.66
VHAPS of Solids	>99.99	>11.983	41.49	4.972	63.65	7.627

PERSONAL PROTECTION:



- Read label, directions, and SDS before use
- Refer to SDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product



SHERWIN-WILLIAMS®
Automotive Finishes

UPO7229

PLASTIC ADHESION PROMOTER - CLEAR

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

Label Caution Information:

UPO7229 Low VOC Plastic Adhesion Promoter, Clear

Danger. Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Emergency telephone number US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year



SHERWIN-WILLIAMS®
Automotive Finishes

NP75 – GRAY
NP74W – WHITE
NP76 – LIGHT GRAY

Direct-To-Metal
Isocyanate (ISO)-Free Primer Surfacers
National Rule

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

NP75 / NP74W / NP76 are Direct-to-Metal (DTM) ISO-Free Primer Surfacers free of lead and chromate hazards. As high build surfacers, with excellent gloss holdout and sanding characteristics, NP75 / NP74W / NP76 can be used in Collision and Fleet markets. NP75 / NP74W / NP76 provide excellent bare metal adhesion and corrosion protection without the need of an etch primer and meet National Rule VOC regulations of 4.6 lbs/gal.

SURFACE PREPARATION*

Designed for use under AWX Performance Plus™ Ultra 7000® and Genesis® refinish systems.

Bare Substrates:

Repairs or sand-throughs can be directly primed without etching.

1. Solvent clean with appropriate Sherwin-Williams Surface Cleaner* and wipe dry with a clean, dry cloth.
2. Sand bare metal with 180 grit sandpaper.
3. Solvent clean with appropriate Sherwin-Williams Surface Cleaner* and wipe dry with a clean, dry cloth.

**Check local regulations regarding the use of solvent cleaners.*

Prepainted Substrates:

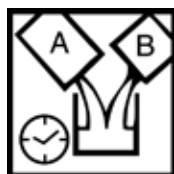
1. Wash surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean, dry cloth.
2. Solvent clean with appropriate Sherwin-Williams Surface Cleaner*, and wipe dry with a clean, dry cloth.
3. Sand repair area and featheredge using 80, 180, 220, 320 and finish with 400 grit treated sandpaper (or P-grade equivalent) on a random orbital sander, thus extending the repair area to accommodate the primer application. Solvent clean with appropriate Sherwin-Williams Surface Cleaner* and wipe dry with a clean, dry cloth.

**Check local regulations regarding the use of solvent cleaners.*


See the appropriate Ultra 7000® basecoat systems Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.

SUITABLE SUBSTRATES


- Treated Steel
- Galvanized Steel
- Stainless Steel
- Aluminum
- Fiberglass / SMC
- OEM Finishes
- 2K Refinish Urethanes
- Body Filler




MIXING


5
NP75 / NP74W /
NP76
DTM Primer
Surfacer

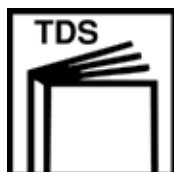
+


2
US1, US2, US3, or
US4
Reducer

+


1
NH77
Hardener

Reducer Selection Chart	
US1	55° - 75° F
US2	65° - 80° F
US3	70° - 85° F
US4	75° - 90° F



NOTES

- Excessive number of coats will extend drying times
- Pot life: 1 hour
- If using UA1 Accelerator, NP75 / NP74W / NP76 must be mixed by weight using Formula Express 2.0® Online Formula Retrieval System



SHERWIN-WILLIAMS®
Automotive Finishes

NP75 – GRAY
NP74W – WHITE
NP76 – LIGHT GRAY

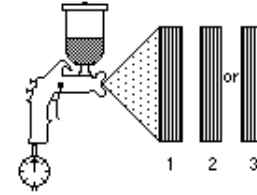
Direct-To-Metal
Isocyanate (ISO)-Free Primer Surfer
National Rule

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



APPLICATION

- Apply 2-3 medium/wet coats at a gun distance of 5" to 7"
- Allow each coat to flash dull between coats
- 6-9 psi HVLP / 35-45 psi Conventional
- Recommended dry film thickness after sanding is 2.0 to 6.0 mils



RECOAT

- Sand with P400 grit sandpaper to seal or P600 grit sandpaper to topcoat
- Recoat with SpectraSeal® Color Primer Sealer P30 or Ultra 7000® basecoat or Genesis® refinish system topcoats within 7 days
- After 7 days, solvent clean and scuff sand using a gray nylon pad

DRYING SCHEDULE

Air Dry: Accelerated with UA1 = 45 minutes at 70° F

Air Dry: Unaccelerated = 2-3 hours at 70° F

Force Dry: Accelerated with UA1 = 5 minutes flash, followed by 10 minutes at 140°F surface temperature

Force Dry: Unaccelerated = 20-30 minutes at 140°F surface temperature

Force Dry: Short Wave Infrared = 5 minutes air dry, followed by 5 minutes flash power, then 10 minutes full power at 36" distance, or 140°F surface temperature

REGULATORY DATA

Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	NP75		NP75 5:2:1 MIX	
	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	14.22	1704	11.69	1401
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	16.8	33.1	30.5	49.4
Water	0.0	0.0	0.0	0.0
Exempt Compounds	2.8	6.1	2.1	3.8
Organic Volatiles	14	27	28.3	45.6
Percent Non-Volatile	83.2	66.9	69.5	50.6
	lb/gal	g/l	lb/gal	g/l
VOC Total	1.98	237	3.31	396
VOC Less Exempt	2.11	253	3.44	4.12
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.00	0.000	0.47	0.057
VHAPS of Solids	0.00	0.000	0.94	0.113



SHERWIN-WILLIAMS®
Automotive Finishes

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

NP75 – GRAY
NP74W – WHITE
NP76 – LIGHT GRAY

Direct-To-Metal
Isocyanate (ISO)-Free Primer Surfer
National Rule



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

NP74W/ NP75/ NP76

DANGER! EXTREMELY FLAMMABLE - VAPORS MAY CAUSE FLASH FIRES! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT.

Contents are **EXTREMELY FLAMMABLE**. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If **INHALED**: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on **SKIN**: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES**: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED**: Call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure.

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS**. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

NH77

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE ALLERGIC SKIN REACTION.

Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If **INHALED**: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on **SKIN**: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES**: Flush eyes



SHERWIN-WILLIAMS®
Automotive Finishes

NP75 – GRAY
NP74W – WHITE
NP76 – LIGHT GRAY

Direct-To-Metal
Isocyanate (ISO)-Free Primer Surfer
National Rule

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Do not induce vomiting. Call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

US1, US2, US3, US4

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT.

Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

UA1

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT.

Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET



SHERWIN-WILLIAMS®
Automotive Finishes

Premium Undercoats High Build Polyester Primer Surfacer HDR22

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

High Build Polyester Primer Surfacer HDR22 is a fast drying polyester primer that has excellent filling and sanding characteristics. In 2-3 coats HDR22 can fill surface imperfections and small dents up to the size of a nickel. Ideal for Collision, Fleet, and Restoration locations nationwide. This product streamlines the repair process for small dents, drastically reducing the amount of material and labor needed to complete these repairs. A great solution for hail damage repairs this high build polyester primer surfacer can provide an alternative to panel replacement and paintless dent repair. This undercoat is VOC compliant at 1.38 lb/gal ready to spray.

SURFACE PREPARATION*

For areas of bare metal first use either [NP75](#) ULTRA-FILL® or Epoxy Sealer [E2A960](#) please refer to product data sheet for to learn more.

Over OEM Enamels/Refinish Enamels:

1. Final sand repair area with P180 grit or finer sandpaper.
2. Solvent clean with an appropriate Sherwin-Williams® surface cleaner. Wipe dry with a clean cloth
3. Apply appropriate amount of HDR22 High Build Polyester Primer

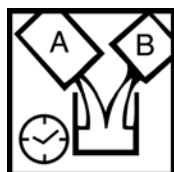
Over body filler or glazing putty:

1. Sand body filler or putty with P180-P220 grit or finer sandpaper
2. Apply appropriate amount of HDR22 High Build Polyester Primer
3. Final sand repair area when sealing with P400 grit or finer sandpaper or P320 when priming.
4. Solvent clean with an appropriate Sherwin-Williams® surface cleaner. Wipe dry with a clean cloth.

***See the [HDR22 High Build Polyester](#) Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

SUITABLE SUBSTRATES

- OEM Enamels
- Refinish Enamels
- Body Filler
- Glazing Putties
- ULTRA-FILL® NP75
- Epoxy Sealer E2A960
- Fiberglass



MIXING



+



4
HDR22
High Build
Polyester
Primer Surfacer

1
HDRH23
High Build
Polyester
Primer
Hardener

Note: This product must be shaken or stirred before mixing to ensure proper consistency



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Automotive Finishes

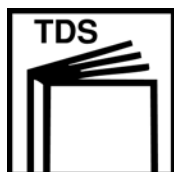
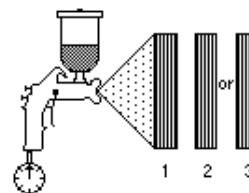
Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

Premium Undercoats High Build Polyester Primer Surfacer HDR22



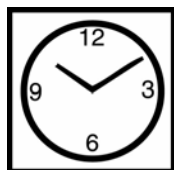
APPLICATION

- Use a primer gun with a fluid tip between 2.0 – 2.2
- Apply 2 - 3 medium coats at a gun distance of 4" – 6"
- Allow each coat to flash 5 to 10 minutes
- Follow the spray equipment manufactures recommended specifications for equipment settings



NOTES

- Excessive number of coats will extend drying times.
- Pot life at 75° F: 1 hour. Potlife will decrease at higher temperatures.
- Maximum film build is 12 mils
- Do not leave product in the spray gun for longer than 30 minutes



RECOAT

- SpectraSeal® Color Primer Sealer P27 or P30
- SpectraPrime® Color Primer Surfacer P27 or P30
- Recoat HDR22 before 7 days or scuff sand and re-apply

DRYING SCHEDULE:

Air Dry: 2 Hours depending on film build

Force Dry: 30 Minutes at 140° F

Short Wave IR: 30 Minutes at 36" distance, surface temperature of 140° F

REGULATORY DATA

Highest VOC Mix Ratio				
4-PARTS	1-PART			
HDR22	HDRH23			
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	11.47	1374	11.15	1336
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	35.0	55.8	30.4	45.9
Water	0	0	0	0
Exempt Compounds	14	24.1	22.2	34.0
Organic Volatiles	21	31.7	8.2	12.0
Percent Non-Volatile	65	44.2	69.6	54.1
	lb/gal	g/l	lb/gal	g/l
VOC Total	2.4	288	.91	109
VOC Less Exempt	2.89	346	1.38	165
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	2.4	0.288	0.82	0.098
VHAPS of Solids	5.45	0.32	1.52	0.182
*As applied VOC is based on actual testing				



SHERWIN-WILLIAMS®
Automotive Finishes

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

Premium Undercoats High Build Polyester Primer Surfacer HDR22



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

HIGH BUILD POLYESTER PRIMER HDR22

DANGER! HARMFUL OR FATAL IF SWALLOWED. EXTREMELY FLAMMABLE - VAPORS MAY CAUSE FLASH FIRES! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. CAUTIONS SEE CONTENTS STATEMENT ELSEWHERE ON LABEL. Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. Contains Styrene which may cause cancer based on animal data. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET

HIGH BUILD POLYESTER PRIMER HARDENER HDRH23

DANGER! EXTREMELY FLAMMABLE - VAPORS MAY CAUSE FLASH FIRES! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. CAUTIONS SEE CONTENTS STATEMENT ELSEWHERE ON LABEL. Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime® Color Primer Surfacer

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

SpectraPrime® Color Primer Surfacer is a premium quality 2K-urethane primer-surfacer that utilizes state of the art Ure-Flex™ Technology to provide the ultimate in performance, versatility, and productivity. The P30 system offers eight factory packaged colors that can be used by themselves or in combination with each other to provide an unlimited color palette. SpectraPrime® Color Primer Surfacer provides the best in topcoat hiding, gloss holdout, resistance to film shrinkage, easy sanding, and does not require the addition of a flex additive for plastic parts repair/refinishing. SpectraPrime® Color Primer Surfacer can be sanded in as little as 5 minutes with Infra Red cure, or 45 minutes at 70°F. SpectraPrime® Color Primer Surfacer can be converted to SpectraSeal® Color Sealer, a wet-on-wet sealer or barrier coat. Please refer to the SpectraSeal® Color Sealer Product Data Sheet (AS2641) to learn more. From underhood topcoats, direct to OEM E-coat, Direct To Metal recommendations, plastic repair process, to typical collision repair scenarios, the P30 system is the most versatile product on the market.

SURFACE PREPARATION*

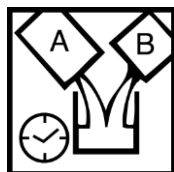
SpectraPrime® Color Primer Surfacer is designed for use under the Ultra 7000®, Ultra 9K™, Ultra BC8™, Ultra One HPU®, AWX Performance Plus™, and Genesis® refinish systems.

1. Final sand repair area when sealing with P400 grit or finer sandpaper.
2. Solvent clean with an appropriate Sherwin-Williams® surface cleaner. Wipe dry with a clean cloth.
3. An etch primer is **NOT** required for small sand throughs or areas of bare metal that are 5" x 5" or smaller. Apply first coat of SpectraPrime® Color Primer Surfacer over the sand through area, allow to flash (2-3 minutes), then apply the second coat over the entire repair area requiring sealer to ensure adequate film build before topcoating.

***See the appropriate Ultra 9K™, Ultra 7000® or AWX Performance Plus™ refinish systems Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

SUITABLE SUBSTRATES


- Treated Steel
- Treated Galvanized Steel
- Treated Aluminum
- OEM Enamels
- Refinish Enamels
- Fiberglass
- Body Filler
- CORROSION SHIELD® Etching Primer




MIXING


4
SpectraPrime®
Color Primer
Surfacer

+


1
AS8* or US1,
US2, US3, US4
Reducers

+


1
H38
Hardener

Reducer Selection Chart	
AS8*	55° - 85° F
US1	55° - 75° F
US2	65° - 80° F
US3	70° - 85° F
US4	75° - 90° F

*AS8 is only recommended for 3 panels or less

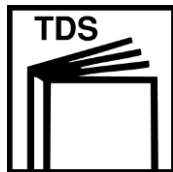


SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime® Color Primer Surfer

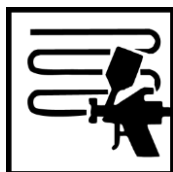
P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



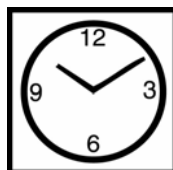
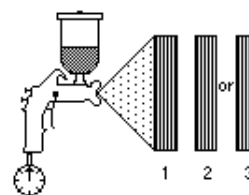
NOTES

- Excessive number of coats will extend drying times.
- When topcoating directly over SpectraPrime® Color Primer Surfer sand with P600 sandpaper.
- On soluble substrates, use SpectraPrime® Color Primer Surfer on complete panels or for overall refinishing only.
- Pot life with US Reducers: 1 hour @70°F
30 min with AS8 @ 75°F (Pot Life will decrease at higher temperatures)



APPLICATION

- Apply 2 - 3 medium/wet coats at a gun distance of 5" to 7"
- Allow each coat to flash 5 to 10 minutes
- 6-9 psi HVLP / 25-45 psi Conventional
- [Refer to the spray gun set up chart for proper equipment.](#)



RECOAT

- SpectraSeal® Color Sealer
- 2K S66 Basecoat Transparent / Adhesion Promoter
- Ultra 7000® Basecoat or Ultra One HPU®
- Ultra 9K™
- Ultra BC8™
- AWP Performance Plus™
- Genesis® Coatings System
- Acrylic Urethane Sealers
- Maximum recoat time after sanding: 7 days. After 7 days, solvent clean and scuff with

DRYING SCHEDULE:

Air Dry: 2-3 Hours at 70° F. with Ultra-Solv® Reducers

Air Dry: 45 Minutes with AS8 Accel Solv® Reducer

Force Dry: 20-30 Minutes at 140° F

Short Wave IR: 5 minutes full power at 18"-20" distance using AS8 reducer with 2 to 3 coats applied using a wet-on-wet, limited flash application technique.
10 minutes flash power, 10 minutes full power at 36" distance with US2-US4 reducers.

REGULATORY DATA

	As Packaged		As Applied	
	G/L	Lbs/Gal	G/L	Lbs/Gal
VOC Total	398	3.32	475	3.96
VOC Less Exempt	398	3.32	475	3.96
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	3.79	0.21	3.35	0.20
	Wt.%	Vol.%	Wt.%	Vol.%
Volatiles	25.5	45.9	34.9	54.5
Water	0.00	0.00	0.00	0.00
Exempt Compounds	0.00	0.00	0.00	0.00
	G/L	Lbs/Gal	G/L	Lbs/Gal
Density	1563	13.05	1362	11.37



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime® Color Primer Surfacer

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

SPECTRAPRIME® COLOR PRIMER SURFACER / SPECTRASEAL® COLOR SEALER SYSTEM 2K PRIMER SURFACER - P30A P30B P30G P30L P30R P30Y P30W

DANGER! Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 62.1%
Emergency telephone number (216) 566-2917

SPECTRAPRIME® COLOR PRIMER SURFACER / SPECTRASEAL® COLOR SEALER SYSTEM 2K PRIMER SURFACER - P30T

Danger! Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime® **Color Primer Surfacers**

**P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow**

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 62.1%

Emergency telephone number (216) 566-2917

SPECTRAPRIME® COLOR PRIMER SURFACER/ SPECTRASEAL® COLOR SEALER SYSTEM 2K PRIMER/SEALER HARDENER – H38

DANGER! Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage. Emergency telephone number (216) 566-2917

ULTRASYSTEM® ACCEL SOLV® ACCELERATED REDUCER – AS8

DANGER! Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 6%

Emergency telephone number (216) 566-2917

US1, US2, US4- ULTRA-SOLV® Reducer, #1, #2, #4

DANGER! Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime® **Color Primer Surfacers**

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains a chemical known to the State of California to cause cancer. FOR PROFESSIONAL USE ONLY. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.
Emergency telephone number (216) 566-2917

US3 ULTRA-SOLV® Reducer #3

DANGER! Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime®

Color Primer Surfacer

Speed Process Application

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

SpectraPrime® Color Primer Surfacer is a premium quality 2K-urethane primer-surfacer that utilizes state of the art Ure-Flex™ Technology to provide the ultimate in performance, versatility, and productivity. The P30 system offers eight factory packaged colors that can be used by themselves or in combination with each other to provide an unlimited color palette. SpectraPrime® Color Primer Surfacer provides the best in topcoat hiding, gloss holdout, resistance to film shrinkage, easy sanding, and does not require the addition of a flex additive for plastic parts repair/refinishing.

With the Speed Process Application. SpectraPrime® Color Surfacer can be sanded in as little as 15 minutes air dry. SpectraPrime® Color Surfacer can be converted to SpectraSeal® Color Sealer, a wet-on-wet sealer or barrier coat. Please refer to the P30 SpectraSeal® Color Sealer Product Data Sheet (AS2641), or the P30 SpectraPrime® Color Primer Product Data Sheet (AS2512) to learn more. From underhood topcoats, direct to OEM E-coat, Direct To Metal recommendations, plastic repair process, to typical collision repair scenarios, the P30 system is the most versatile product on the market.

SURFACE PREPARATION*

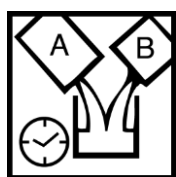
SpectraPrime® Color Primer Surfacer is designed for use under the Ultra 9K™, Ultra 7000®, Ultra BC8™, Ultra One HPU®, AWX Performance Plus™, and Genesis® refinish systems.

1. Final sand repair area when sealing with P400 grit or finer sandpaper.
2. Solvent clean with an appropriate Sherwin-Williams® surface cleaner. Wipe dry with a clean cloth.
3. An etch primer is **NOT** required for small sand throughs or areas of bare metal that are 5" x 5" or smaller. Apply first coat of SpectraPrime® Color Primer Surfacer over the sand through area, allow to flash (2-3 minutes), then apply second coat over the entire repair area requiring sealer to ensure adequate film build before topcoating.

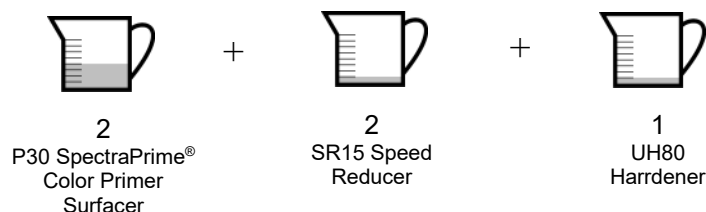
***See the appropriate Ultra 9K™, Ultra 7000® or AWX Performance Plus™ refinish systems Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

SUITABLE SUBSTRATES

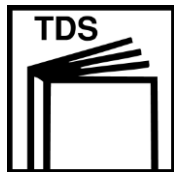
- Treated Steel
- Treated Galvanized Steel
- Treated Aluminum
- OEM Enamels
- Refinish Enamels
- Fiberglass
- Body Filler
- CORROSION SHIELD® Etching Primer



MIXING

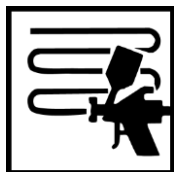


NOTE: Sprayable potlife is 15 – 20 minutes.
Clean spray gun immediately after use.



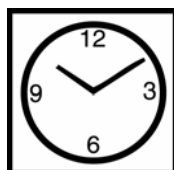
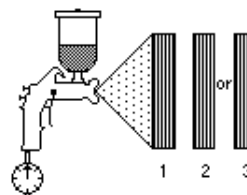
NOTES

- Excessive number of coats will extend drying times.
- When topcoating directly over SpectraPrime® Color Primer Surfacer sand with P600 sandpaper.
- On soluble substrates, use SpectraPrime® Color Primer Surfacer on complete panels or for overall refinishing only.



APPLICATION

- Apply 2 - 3 medium/wet coats at a gun distance of 5" to 7"
- No flash necessary – not to exceed 2 minutes
- 6-9 psi HVLP / 25-45 psi Conventional
- Recommended dry film thickness after sanding = 2.0 – 2.5 mils.
- [Refer to the spray gun set up chart for proper equipment.](#)



RECOAT

- P30 SpectraSeal® Color Sealer
- S66 2K Transparent Basecoat Blender
- Ultra 7000® Basecoat
- Ultra 9K™ Basecoat
- Ultra BC8™ Basecoat
- AWP Performance Plus™ Basecoat
- Ultra One HPU® Single Stage Coating
- Acrylic Urethane Sealers

DRYING SCHEDULE:

Air Dry: 15 – 20 minutes at 70° F with SR15 Reducer.

Force Dry: N/A.

Short Wave IR: N/A.

Note: High film builds and cool temperatures can increase dry times.

REGULATORY DATA

	As Packaged		As Applied	
	G/L	Lbs/Gal	G/L	Lbs/Gal
VOC Total	398	3.32	202	1.69
VOC Less Exempt	398	3.32	291	2.43
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	3.79	0.21	1.77	0.13
	Wt. %	Vol. %	Wt. %	Vol. %
Volatiles	25.5	45.9	39.1	53.7
Water	0.00	0.00	0.00	0.00
Exempt Compounds	0.00	0.00	22.1	30.4
	G/L	Lbs/Gal	G/L	Lbs/Gal
Density	1563	13.05	1188	9.92



SHERWIN-WILLIAMS
Automotive Finishes

SpectraPrime®

Color Primer Surfacer

Speed Process Application

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

SPECTRAPRIME® COLOR PRIMER SURFACER / SPECTRASEAL® COLOR SEALER SYSTEM 2K PRIMER SURFACER – P30A P30B P30G P30L P30R P30Y P30W

DANGER! Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 62.1% Emergency telephone number (216) 566-2917

SPECTRAPRIME® COLOR PRIMER SURFACER / SPECTRASEAL® COLOR SEALER SYSTEM 2K PRIMER SURFACER - P30T

Danger! Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Use personal protective equipment as required. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraPrime®

Color Primer Surfacer

Speed Process Application

**P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow**

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 62.1%

Emergency telephone number (216) 566-2917

SR15 SPECTRAPRIME® Speed Reducer

DANGER! Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Response: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. If skin irritation or rash occurs: Get medical attention. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR PROFESSIONAL USE ONLY. Please refer to the SDS for additional information. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.1%

Emergency telephone number (216) 566-2917

UH80 LOW VOC Air Dry Hardener

Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a wellventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. In case of inadequate ventilation wear respiratory protection. Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Storage: Keep cool. Store in a well-ventilated place. Store locked up. Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Please refer to the SDS for additional information. Do not transfer contents to other containers for storage. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Emergency telephone number (216) 566-2917



PRODUCT OVERVIEW

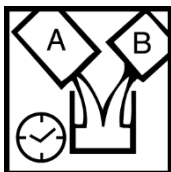
3.5 VOC DTM EPOXY Sealer, E2A960/E2W963/E2Y964, is a low VOC, two-component sealer offering excellent direct-to-metal adhesion and corrosion protection over properly cleaned steel and aluminum substrates. E2A960/E2W963/E2Y964 offers flexibility greater than standard Epoxy primers and requires no induction time. This 3.5 VOC DTM EPOXY Sealer is designed for truck manufacturers, fleets and automotive refinishers where extended service is important. This primer may be topcoated as soon as 30 minutes after priming.



SUITABLE SUBSTRATES

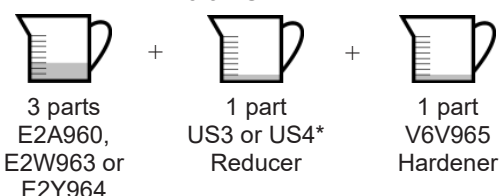
- Cold rolled steel
- Hot rolled steel
- Fiberglass
- Aluminum
- Stainless steel
- SMC
- IMC
- ED5050 E-Coat
- Body Filler

NOTE: Not for use for immersion services. Not for use on surfaces with extended surface temperatures of 250° F or more.



MIXING

3.5 VOC Mix



***Note:** You can also mix with ½ part US5 Reducer.

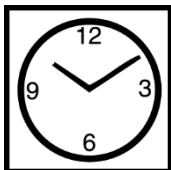
Note: For decreased dry times, use up to 3 oz UA1 Accelerator.



APPLICATION

For Pressure/Siphon feed, apply 2 medium coats at a gun distance of 8-10 inches. Spray to hiding. For HVLP, apply 1 full wet coat with 50% overlap, applying the second coat in a cross-coat method. Recommended dry film thickness is 2.0-2.5 mils.

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 55-65 psi for pressure feed applications with a fluid delivery of 8-15 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 55-65 psi for pressure feed applications with a fluid delivery of 8-15 ounces per minute.



DRYING SCHEDULE

Using US5

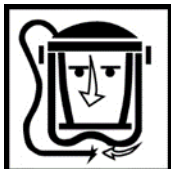
Hand Slick	5 minutes
Topcoatable	30 minutes
Tack Free	1.5 hours
Nib-Sandable	1.5 hours
Dust Free	1.5 hours
Tape Free	1.5 hours
Dry to Sand	1.5 hours

Using US3 or US4

Hand Slick	10 minutes
Topcoatable	45 minutes
Tack Free	2 hours
Sandable	2 hours
Dust Free	2 hours
Tape Free	2 hours
Dry to Sand	2 hours

Using up to 3 oz sprayable gallon UA1

Hand Slick	5 minutes
Topcoatable	20 minutes
Tack Free	1 hour
Nib-Sandable	1.5 hours
Dust Free	1.5 hours
Tape Free	1.5 hours
Dry to Sand	1.5 hours



PERSONAL PROTECTION

- Read all label directions before use.
- Refer to SDS for specific information.
- Wear positive-air respirator when mixing and applying.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety goggles, coveralls, and latex gloves mixing and applying when using product.

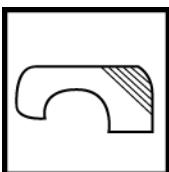


PRODUCT DATA SHEET



SURFACE PREPARATION

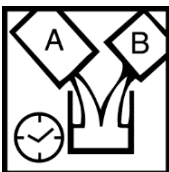
- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean cloth.
- **Solvent clean** with the appropriate Sherwin-Williams solvent cleaner, and wipe dry with a clean cloth.
- **Abrade repair area** to remove paint and all rust as needed.
- **Apply** body filler to clean bare metal as needed.
- **Sand** all areas to be refinished with 320-grit sandpaper and featheredge all broken film areas.



SUITABLE SUBSTRATES

- Cold rolled steel
- Hot rolled steel
- Fiberglass
- Aluminum
- Stainless steel
- SMC
- IMC
- ED5050 E-Coat
- Body Filler

NOTE: Not for use for immersion services. Not for use on surfaces with extended surface temperatures of 250° F or more.



MIXING

- Stir or shake E2A960/E2W963/E2Y964 3.5 Epoxy DTM Primer thoroughly before mixing.
- For 3.5 VOC, mix by volume 3 parts E2A960/E2W963/E2Y964 with 1 part US3 / US4 **or** ½ part US5 Reducer and 1 part V6V965 Hardener.
- Stir thoroughly and strain before mixing.
- Pot life at 70-80° F is 4 hours when using US4 or US3. Pot life at 70-80° F is 2 hours when using US5.

3.5 VOC Mix



+



+



3 parts
E2A960,
E2W963 or
E2Y964

1 part
US3 or US4*
Reducer

1 part
V6V965
Hardener

***Note:** You can also mix with ½ part US5 Reducer.

Note: For decreased dry times, use up to 3 oz UA1 Accelerator.

NOTES

- For a high solids alternate mix ratio to fill blast profiles, mix 3 parts E2A960/E2W963/E2Y964 with 0.5 part US3/US4/US5 Reducer and 1 part V6V965 Hardener.
- If using US5 Reducer, 0.5 part is recommended due to shortening of the pot life by 2 hours.

REDUCER	TEMPERATURE RANGE
US3	50-75° F
US4	65-90° F
US5	85-95° F



PRODUCT DATA SHEET

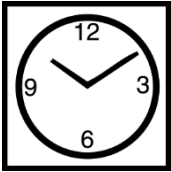


APPLICATION

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 55-65 psi for pressure feed applications with a fluid delivery of 8-15 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 55-65 psi for pressure feed applications with a fluid delivery of 8-15 ounces per minute.

EQUIPMENT

<u>Gun Type</u>	<u>Nozzle</u>	<u>Air Pressure</u>
Conventional Siphon Feed	1.3-1.5 mm	55-65 psi
Conventional Gravity Feed	1.3-1.5 mm	55-65 psi
Conventional Pressure Feed	0.8-1.1 mm at 8-15 oz/min	55-65 psi
HVLP Gravity Feed	1.3-1.5 mm	8-10 psi at cap
HVLP Pressure Feed	0.8-1.1 mm at 8-15 oz/min	8-10 psi at cap



DRYING SCHEDULE

- Air dry at 75° F and 25% relative humidity and 2.0-2.5 mils. Dry times will be extended by thicker films, low temperature, or high humidity.

<u>Using US5</u>		<u>Using US3 or US4</u>		<u>Using up to 3 oz sprayable gallon UA1</u>	
Hand Slick	5 minutes	Hand Slick	10 minutes	Hand Slick	5 minutes
Topcoatable	30 minutes	Topcoatable	45 minutes	Topcoatable	20 minutes
Tack Free	1.5 hours	Tack Free	2 hours	Tack Free	1 hour
Nib-Sandable	1.5 hours	Sandable	2 hours	Nib-Sandable	1.5 hours
Dust Free	1.5 hours	Dust Free	2 hours	Dust Free	1.5 hours
Tape Free	1.5 hours	Tape Free	2 hours	Tape Free	1.5 hours
Dry to Sand	1.5 hours	Dry to Sand	2 hours	Dry to Sand	1.5 hours

Force Dry to sand: 45 minutes at 160° F.
30 minutes at 180° F.

RECOATING

- E2A960/E2W963/E2Y964 3.5 VOC Epoxy Sealer may be recoated up to 72 hours after spraying without scuffing for most topcoats.
- If using Ultra 7000®, you may recoat up to 2 days without scuffing. After 2 days, scuff sand with 320 grit or finer sandpaper to insure proper adhesion.

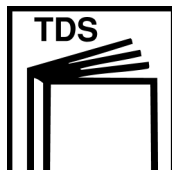
SUITABLE TOPCOATS

- Genesis® Basecoat/Clearcoat
- Genesis® Single Stage Topcoats
- Dimension Topcoats
- ULTRA 7000® Basecoat/Clearcoat
- ULTRA 9K™
- ULTRA ONE™ HPU 5.0/3.5



PRODUCT DATA SHEET

TECHNICAL DATA



Mixing Ratio by Volume	3:1:1	Physical Properties:	
Max VOC @ 3:1:1	3.46 lbs/gal	Humidity - 100 hours	Pass
Ready to Spray Volume Solids	48.28 %	Impact Resistance (Direct at 80 in-lbs.)	Pass
Coverage @ 1 mil dry	774 FT ² /gal	Flexibility (1/8" conical mandrel)	Pass
Pot Life	4 hours at 70-80° F *2 hours with US5 *30 minutes with 3 oz UA1	Salt Spray – 1000 hours	Pass
Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	18-22 secs	Gloss Holdout (at 15-30 minute recoat)	Excellent
Recommended Dry Film Thickness	2.0-2.5 mils		

*Note: Use of US5 or UA1 reduces the coating pot life.

3.5 VOC Epoxy Sealer	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	13.12	1571	10.84	1298
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	20.2	37.2	34.0	51.8
Solids	79.8	62.8	66.0	48.2
Water	0	0	0	0
Exempt Compounds	5.4	10.2	3.9	6.1
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	1.93	231	3.25	389
VOC Less Exempt	2.15	257	3.46	415
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0.37	0.045	1.63	0.196

To learn more about Sherwin-Williams® Products, visit our website at www.OEM.Sherwin-Williams.Com



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraSeal® Color Primer Sealer (Waterborne Basecoats Only)

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION

SpectraSeal® Color Primer Sealer is a premium quality 2K-urethane primer sealer that utilizes state of the art Ure-Flex® Technology to provide the ultimate in performance, versatility, and productivity. The P30 system offers eight factory packaged colors that can be used by themselves or in combination with each other to provide an unlimited color palette. SpectraSeal® Color Primer Sealer provides the best in gloss holdout, resistance to film shrinkage, easy sanding, and does not require the addition of a flex additive for plastic parts repair/refinishing. From underhood topcoats, direct to OEM E-coat, Direct To Metal recommendations, plastic repair process, to typical collision repair scenarios, the P30 system is the most versatile product on the market.

SURFACE PREPARATION*

SpectraSeal® Color Primer Sealer is designed for use under the Ultra 9K™, and AWX Performance Plus™.

1. Final sand repair area when sealing with P400 grit or finer sandpaper.
2. Solvent clean with an appropriate Sherwin-Williams® surface cleaner. Wipe dry with a clean cloth.
3. For areas of bare metal that are 5" x 5" or smaller, Apply first coat of SpectraSeal® Color Primer Sealer over the sand through area, allow to flash (2-3 minutes), then apply the second coat over the entire repair area requiring sealer to ensure adequate film build before topcoating.

***See the appropriate Ultra 9K™ or AWX Performance Plus™ Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

An etch primer is **NOT** required for small sand throughs

SUITABLE SUBSTRATES

- OEM Enamels
- Refinish Enamels
- SpectraPrime® Primer Surfacer
- If Etch Primer is required, isolate with P30 Primer before Sealing
- Ultra-Fill® Primer Surfacer
- Color-Prime® Primer Surfacer
- OEM E-Coat

MIXING



First, Create SpectraSeal®
Primer Sealer by mixing:



2
P30

+



1
S45

Reducer Selection Chart		
Reducer	Temperature	When to Use
US2	65° - 75° F	Spot
US3	70° - 80° F	Panel
US4	75° - 90° F	All Repairs

Then mix:



4
SpectraSeal®
Primer Sealer

+



2
US2, US3 or US4
Reducer

+



1
H38
Hardener

NOTE: This mix can be done in a single step using the color formula retrieval system

For optimal appearance, flow and leveling US4 reducer is recommended

NOTE: ONLY USE S45 WITH WATERBORNE BASECOATS



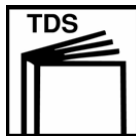
SHERWIN-WILLIAMS®
Automotive Finishes

SpectraSeal® Color Primer Sealer (Waterborne Basecoats Only)

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

NOTES



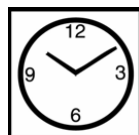
- Clean application equipment with appropriate Sherwin-Williams® equipment and gun cleaner.
- On soluble substrates, use P30 system surfacer on complete panels only.
- If topcoating directly over P30 system surfacer, sand with P600 grit sandpaper.
- Pot Life: 20 minutes.

APPLICATION



- Sealer application is the foundation of the repair. The application should be smooth and uniform to produce the best final appearance.
- Make sure to use a good quality topcoat spray gun: Primer guns are not recommended.
- [Refer to the spray gun set up chart for proper equipment.](#)
- **Wet-on-Wet Application:** Apply 1 smooth uniform coat to achieve 0.8 to 1.2 mils.
- **Barrier Coat Application:** Apply 2-3 smooth uniform coats, allowing each coat to flash hand slick before applying the next coat. Must be sprayed to 2.0 mils dry film thickness and must be used on complete panels only. See the Barrier Sealer recoat chart below for the recoat times that must be adhered to. Apply to complete panels only.
- **Underhood Application:** Refer to the Prospector® Color Reference System Primer / Underhood Decks, (Item #AS2880), for full range of underhood colors.
- **Exterior E-Coat Application:** SpectraSeal® Color Sealer can be applied directly to properly cleaned unsanded OEM e-coat. To remove factory imperfections, sand with 600 grit sandpaper on an interface pad.
- **Jamming Parts:** SpectraSeal® Color Sealer can be applied direct to properly cleaned unsanded OEM e-coat.

RECOAT



- Ultra 9K™ Waterborne Basecoat.
- AWX Performance Plus™ Waterborne Basecoat.
- P30 SpectraSeal® Color Primer Sealers may be re-coated with basecoat as early as 10 minutes.
- If P30 SpectraSeal® Color Primer Sealer is left to sit for longer than 2 hours, you must air dry for 8 hours or bake at 140°F for 25-30 minutes and scuff sand before recoating. Maximum recoat time after sanding is 7 days. After 7 days, scuff sand using a gray nylon pad.

BARRIER COAT Recoat Chart: Must sand when using as a Barrier Coat

Temperature (°F)	Dry to Sand	Temperature (°F)	Dry to Sand
60-70°	4 hours	120° (force dry)	30 minutes @ 120° surface temp.
70-80°	3 hours	140° (force dry)	20 minutes @ 140° surface temp.
80-90°	2 hours	160° (force dry)	10 minutes @ 160° surface temp.



SHERWIN-WILLIAMS®
Automotive Finishes

SpectraSeal® Color Primer Sealer

(Waterborne Basecoats Only)

P30A- Gray, P30B- Black, P30G- Green, P30L- Blue,
P30R- Red, P30T- Tan, P30W- White, P30Y- Yellow

Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

REGULATORY DATA

SpectraSeal® Color Primer Sealer				
FIRST MIX	2-PARTS		1-PART	
MIX A	P30A		S45	
THEN MIX	4-PARTS		2-PARTS	1-PART
	MIX A		US4	H38
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	S45 As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	842	1009	10.12	1212
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	49.4	55.5	45.3	62.6
Water	0	0	0	0
Exempt Compounds	0	0	0	0
Organic Volatiles	49.4	55.5	45.3	62.6
Percent Non-Volatile	50.6	44.5	54.7	37.4
VOC Total	4.15	489	4.57	548
VOC Less Exempt	4.15	489	4.57	548
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.01	0.001	1.05	0.126
VHAPS of Solids	0.03	0.003	2.81	0.337

PERSONAL PROTECTION



- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

LABEL CAUTION INFORMATION

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at <http://www.sherwin-automotive.com>. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS**. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917.



SHERWIN-WILLIAMS®
Automotive Finishes

DTM Primers
3.5 VOC Epoxy Primers
E2A933 - Gray
E2B931- Black
E2W932 - White
E2Y936 - Yellow

PRODUCT OVERVIEW

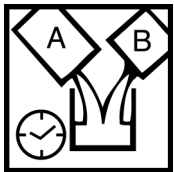
3.5 VOC DTM Epoxy Primers, E2B931, E2W932, E2A933, E2Y936 are low VOC, two-component primers offering excellent direct-to-metal adhesion and corrosion protection over properly cleaned steel and aluminum substrates. 3.5 VOC Epoxy Primers E2B931, E2W932, E2A933, E2Y936 offer flexibility greater than standard epoxy primers. E2B931, E2W932, E2A933, E2Y936 require no induction time and are designed for truck manufacturers, fleets and automotive refinishers where extended service is important. These primers may be topcoated as soon as 30 minutes after priming.



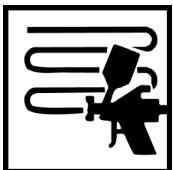
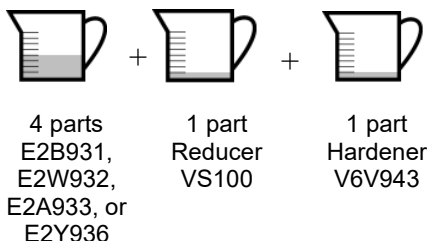
SUITABLE SUBSTRATES

- Cold rolled steel
- Hot rolled steel
- Hot-dipped Galvaneal
- Aluminum
- SMC
- IMC
- E-Coated Steel
- Body Filler
- ED5050

NOTE: Not for use on immersed surfaces. Not for use on surfaces with extended surface temperatures of 250°F or more.



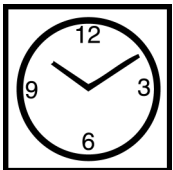
MIXING



APPLICATION

For Pressure/Siphon feed, apply 2 medium coats at a gun distance of 8-10 inches. For HVLP, apply 1 full wet coat with 50% overlap, then apply a second coat in a cross-coat method. Recommended dry film thickness is 2.0-2.5 mils.

1. HVLP: Adjust air pressure at cap to 5-10 psi.
2. Adjust air pressure at the gun to 55-65 psi for pressure feed applications with a fluid delivery of 8-15 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 60 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.



DRYING SCHEDULE

Air Dry Times at 75°F and 25% relative humidity

Hand Slick:	5 minutes
Dust Free:	15-20 minutes
Tack Free:	1 hour
Nib Sandable:	1 hour
Sandable:	1.5 hours (slightly longer for E2B931)
Tape Free:	1.5 hours (slightly longer for E2B931)



PERSONAL PROTECTION

- Read all label directions before use.
- Refer to MSDS for specific information.
- Wear positive-air respirator when mixing and applying.
- For Professional Use Only.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety goggles, coveralls and latex gloves when using product.



SHERWIN-WILLIAMS®
Automotive Finishes

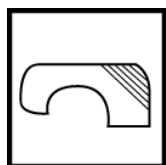
DTM Primers
3.5 VOC Epoxy Primers
E2A933 - Gray
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E2Y936 - Yellow

PRODUCT DATA SHEET



SURFACE PREPARATION

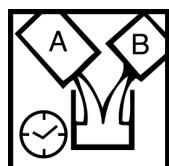
- **Solvent clean** with the appropriate solvent cleaner and wipe dry with a clean cloth.
- **Abrade** all bare metal surfaces with 220 or 320 grit sandpaper, or Red Scotch Brite® pad.
- **Apply** body filler to clean bare metal as needed.
- **Solvent clean** again with appropriate solvent cleaner to remove sand residue.



SUITABLE SUBSTRATES

- Cold rolled steel
- Hot rolled steel
- Hot-dipped Galvaneal
- Aluminum
- SMC
- IMC
- E-Coated Steel
- Body Filler
- ED5050

NOTE: Not for use on immersed surfaces. Not for use on surfaces with extended surface temperatures of 250°F or more.



MIXING

- Stir or shake E2B931, E2W932, E2A933, E2Y936 3.5 Epoxy Primer thoroughly before mixing. Use care when opening and after shaking, as slight solvent pressure may build.
- Mix by volume 4 parts E2B931, E2W932, E2A933, E2Y936 with 1 part VS100 Reducer, and 1 part V6V943 Epoxy Hardener.
- Stir thoroughly and strain.
- Pot life 4 hours at 70-80°F for E2W932 and E2A933. Pot life 3 hours at 70-80°F for E2B931.



4 parts
E2B931,
E2W932 or
E2A933

1 part
VS100
Reducer

1 part
V6V943
Hardener

REDUCER	TEMPERATURE RANGE
VS100	50-75°F
R7K7210 or ES20	75-90°F

NOTE: VS100 Reducer may be replaced with R7K7210 or ES20 for warm and hot conditions respectively where improved leveling and overspray acceptance are needed.



APPLICATION

1. Adjust air pressure at the gun to 55-65 psi for siphon, gravity or pressure feed (adjust pot pressure to 5-10 psi for 8-15 fluid ounces per minute delivery).
2. For Pressure/Siphon feed, apply 2 medium coats at a gun distance of 8-10 inches. For HVLP, apply 1 full wet coat with 50% overlap, applying the second coat in a cross-coat method. Recommended dry film thickness is 2.0-2.5 mils.
3. Clean spray gun immediately after use with Gun and Equipment Cleaner.



SHERWIN-WILLIAMS®
Automotive Finishes

DTM Primers
3.5 VOC Epoxy Primers
E2A933 - Gray
E2B931- Black
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PRODUCT DATA SHEET

EQUIPMENT

Gun Type

Conventional Gravity Feed
Conventional Pressure Feed
HVLP Gravity Feed
HVLP Pressure Feed

Nozzle

1.3-1.5 mm
0.8-1.1 mm at 8-12 oz/min
1.3-1.5 mm
0.8-1.1 mm at 8-12 oz/min

Air Pressure

55-65 psi
55-65 psi
5-10 psi at cap
5-10 psi at cap

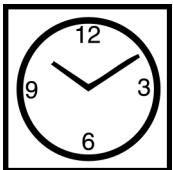
RECOAT

- E2B931, E2W932, E2A933, E2Y936 3.5 VOC Epoxy Primers may be recoated up to 7 days after spraying without scuffing for most topcoats (see exceptions below).
- Ultra 7000® Basecoat may be recoated up to 2 days without scuffing. After 2 days, scuff sand with 320 grit or finer sandpaper to ensure proper adhesion.

Recommended topcoats:

- DIMENSION® 2.8-3.5 Urethane Enamel (7 Days)
- Ultra 7000® Basecoat (2 Days)
- GENESIS® Basecoat (3 Days)
- GENESIS® 2.8/3.5 Acrylic Urethane (7 Days)
- GENESIS® M Acrylic Urethane (7 Days)

NOTE: When sealing with any urethane sealer, allow primer to dry a minimum of 3 hours.



DRYING SCHEDULE

Dry times are based on the recommended dry film thickness of 2.0-2.5 mils. Thicker films, low temperatures, and high humidity will extend dry time.

Air Dry Times at 75°F and 25% relative humidity

Hand slick: 5 minutes
Dust Free: 15-20 minutes
Nib Sandable: 1 hour
Tack Free: 1 hour
Sandable: 1.5 hours (slightly longer for E2B931)
Tape Free: 1.5 hours (slightly longer for E2B931)

Force Dry Times

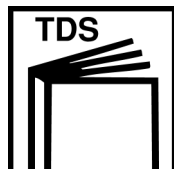
<u>Temperature</u>	<u>Time to Sand</u>
160°F	45 minutes
180°F	30 minutes



SHERWIN-WILLIAMS®
Automotive Finishes

DTM Primers
3.5 VOC Epoxy Primers
E2A933 - Gray
E2B931- Black
E2W932 - White
E2Y936 - Yellow

PRODUCT DATA SHEET



TECHNICAL DATA

Mixing Ratio by Volume	4:1:1	Physical Properties	
Max VOC @ 4:1:1	3.11 lbs/gal	Salt Spray 500 hours	Pass
Ready to Spray Volume Solids (White)	40-41 %	Impact Resistance direct @ 80 in-lbs	Pass
Coverage @ 1 mil dry (white)	656-657 FT ² /gal	Humidity 100 hours	Pass
Pot Life	4 hours at 75°F 3 hours at 75°F for E2B931P	Flexibility (1/8" conical mandrel)	Pass
Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	14-16 sec	Recommended Dry Film Thickness	2.0 -2.5 mils

E2B931 / W932 / A933	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	12.02	1440	10.57	1266
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	28.4	48.8	40.3	59.0
Solids	71.6	51.2	59.7	41
Water	0	0	0	0
Exempt Compounds	9.6	17.6	19.1	28.3
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	2.25	269	2.23	267
VOC Less Exempt	2.73	327	3.11	373
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0.00	0.000	0.47	0.057

To learn more about Sherwin Williams® Automotive Refinish Products, visit our Web site at www.sherwin-automotive.com



PREMIUM UNDERCOATS SPRAY GUN SETTINGS

P30 & 27 Spectraprime - All Colors

AIR PRESSURE SETTINGS

These are recommended starting points using the spray guns listed. Due to inconsistencies that exist between various brands of Air Pressure Regulators, these recommended pressures may need to be adjusted based on the specific equipment you are using. It is important to select spray guns according to your spray environment.

MANUFACTURER	MODEL	PSI AT THE GUN SEALER COATS	PSI AT THE GUN PRIMER COATS	FLUID TURNS OUT	FLUID TIP SIZE
SATA	5000 B HVLP	28	N/A	FULL OPEN	1.2
SATA	5000 B RP	28	N/A	FULL OPEN	1.2
SATA	X 5500 HVLP	28	N/A	FULL OPEN	1.2
SATA	X 5500 RP	28	N/A	FULL OPEN	1.2
SATA	MINIJET 4400 HVLP	N/A	24 - 28	FULL OPEN	1
SATA	MINIJET 4400 RP	N/A	24 - 28	FULL OPEN	1.0 - 1.2
DEVILBISS	DV1	18	12 - 14	FULL OPEN	1.2
DEVILBISS	TEKNA PROLITE TE20 AIR CAP	24	20 - 22	FULL OPEN	1.2
DEVILBISS	SRI PRO PURPLE TS1 CAP	N/A	22 - 26	2.5 - FULL OPEN	1.2
ANEST IWATA	LPH400-LV SILVER CAP	16 - 18	12 - 14	FULL OPEN	1.3
ANEST IWATA	LS400 ENTECH HVLP	20 - 24	15 - 18	2.5 - FULL OPEN	1.3, 1.4
ANEST IWATA	SUPERNOVA WS400	28	N/A	FULL OPEN	1.2 HD
3M*	PERFORMANCE SPRAY GUN	18 - 20	18 - 20	FULL OPEN	1.3 - 1.4

*Must be used with the fan control set at 2.5 turns closed

NOTE:

- A dirty or worn nozzle set/air cap will not produce the results of a clean, properly maintained one.
- For questions regarding the correct spray equipment for your environment, please contact your local Sherwin-Williams® Automotive Technical Representative for assistance.

S2-33



ULTRA
9KTM

Basecoat



Questions? Call us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT TECHNICAL INFORMATION

PRODUCT DESCRIPTION

The Ultra 9K™ Waterborne Basecoat is one of the most user-friendly basecoat systems on the market. Perfected in the lab and proven in the shop, this innovative basecoat is well-suited for premium collision center, dealerships and multi-shop owners.

SURFACE PREPARATION

1. Sealer: Final sand repair area with P400-P600 grit or finer sandpaper.
2. Primer Surfacer: Final sand primer surfacer with P600 grit sandpaper. Dry sanding of the primer surfacer is recommended on a random orbital sander. – Do not wet sand the primer surfacer
3. Blend Panels: If blending is required, sand with P800 grit sandpaper on a random orbital sander.
4. Clean with appropriate Sherwin-Williams® surface cleaner and wipe dry with a clean cloth.

SUITABLE SUBSTRATES

- OEM Finishes
- Aged Refinishes
- P27/P30 Primers and Sealers
- E2A960
- E2W963

NR CLEARCOATS

- CC200 - Dynamic Clearcoat
- HPC15 - HP Process Clearcoat
- 1100755 - Elegance Clearcoat
- 1100727 – Matte Clearcoat
- CC950 – Appearance+ Performance Clearcoat

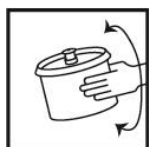
COMPLIANT CLEARCOATS

- HPC21 - HP Process Clearcoat
- 1100755 - Elegance Clearcoat
- 1100727 – Matte Clearcoat
- CC250 – Dynamic+ Clearcoat

GRAY SHADES

If a gray shade undercoat is recommended, you must use as directed in Color Access to ensure proper color match.

MIXING



- Use a new dosing cap each time you replace a new toner.
- When replacing a toner, hand agitate packaging for ~ 45 sec. **Only hand agitate ULTRA 9K™ Toners.**
- Before use, hand agitate toner package for 10 sec. before dispensing.
- Use the Dispensing Extender to dispense paint.

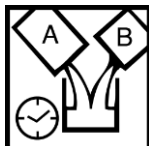


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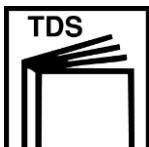
Ultra 9K™ Basecoat Color

U9R1 Standard Reducer



- Recommended Potlife of reduced Ultra 9K™ basecoat is 6 months (prepare a spray out panel to confirm color).
- Incorporate reducer into Ultra 9K™ Basecoat with a plastic stir stick. **Hand stir only.**

NOTES



- Ultra 9K Basecoat products must be stored/transported at temperatures between 40°F and 90°F.
- Recommended strainer: 125 micron.
- Do not add fisheye eliminator to Ultra 9K™ Basecoat Color.
- Ultra 9K™ Basecoat Color may be dry sanded after dehydration with P800 grit or finer sandpaper to remove imperfections. Apply additional basecoat to sanded areas prior to clearcoating.
- Refer to [Ultra 9K™ Best Demonstrated Practices: Achieving Color Excellence](#) for shelf life details.



BASECOAT APPLICATION



- See individual methods for application instructions below.
- Adhere to the outlined spray gun settings for optimal sprayability and color match.
- Dehydrate basecoat till hand slick (see below) prior to dropcoating.
- Dehydrate basecoat till thumbtwill (see below) prior to clearcoating.
- Refer to the Ultra 9K™ basecoat spraygun chart for individual [Spraygun settings](#).

For additional information and details by repair scenario please refer to the Ultra 9K™ Refinish System [Best Demonstrated Practices](#).

TACK COAT

It is recommended that a tack coat be applied prior to coverage coats. The application of this tack coat is threefold:

- 1) To reveal irregularities on the surface
- 2) As a "grip coat" for the wet on wet double coat to lay into
- 3) For faster coverage

Apply a tack coat on all sanded areas. This would include a refinish panel or a blend panel in the event a blender is not used.

Note: The tack coat can be dehydrated using the air flow from the spray gun or a hand held venturi unit. If using the spray gun to blow air, pay close attention that there is no dried material that could transfer onto the panel.

APPLICATION METHOD 1:

WET-ON-WET APPLICATION METHOD

Preferred application method; provides better metal control, speed, ease of application and material transfer.

- Tack Coat (as needed)
- Dehydration
- 1st coat: Full Wet Coat (Coverage Coat)
 - No Dehydration – Immediately followed by
- 2nd Coat: Medium Wet Coat (Orientation Coat)

Note: Back spray gun up 2" as compared to 1st full coverage coat.

- Dehydration (hand slick)
- Drop Coat

Note: Double distance, half the pressure to achieve a uniform dropcoat. Dropcoat for effect colors only

Troubleshooting

Blotchy after 1st coat → Proceed with orientation coat
Streaky after 1st coat → Dehydrate and repeat 1st full coverage coat
Blotchy after orientation coat → Repeat orientation coat

APPLICATION METHOD 2:

OPTIONAL APPLICATION METHOD

Recommended for black solid colors and formulas containing more than 80% black, large repair sizes, and high humidity conditions.

- Tack Coat (as needed)
- Dehydration
- 1st coat: Medium Wet Coat (Coverage Coat)
- Dehydration (hand slick)
- 2nd coat: Medium Wet Coat (Orientation Coat)

Note: Maintain spray gun distance to allow for sufficient wetting.

- Dehydration (hand slick)
- Drop Coat

Note: Double distance, half the pressure to achieve a uniform dropcoat. Dropcoat for effect colors only

Troubleshooting

Blotchy after 1st coat → Proceed with orientation coat
Streaky after 1st coat → Repeat 1st coverage coat
Blotchy after orientation coat → Repeat orientation coat

MID-COAT APPLICATION METHOD (FOR 3-STAGE COLORS)

Preferred application method for mid-coat; provides better metal control, speed, ease of application and material transfer.

- 1st coat: Medium Wet Coat
- Dehydration Between Coats -OR- Wet-on-Wet Application Between Coats
- 2nd Coat: Medium Wet Coat (Orientation Coat)

Note: Back spray gun up 2" as compared to 1st full coverage coat.

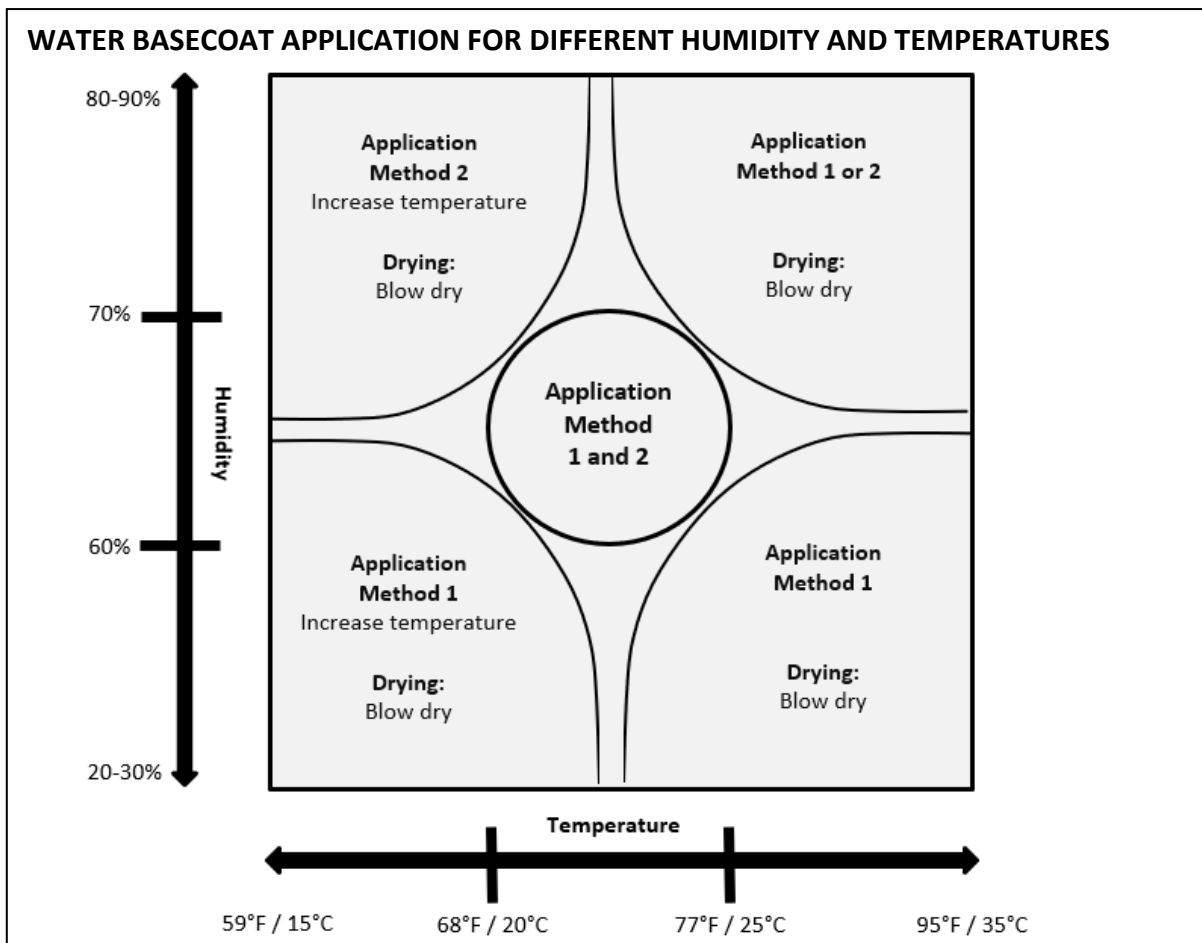
- Dehydration (hand slick)
- Optional Dropcoat (As Needed)

Troubleshooting

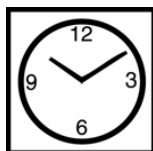
Blotchy after 1st coat → Proceed with orientation coat
Streaky after 1st coat → Dehydrate and repeat 1st full coverage coat
Blotchy after orientation coat → Repeat orientation coat



BASECOAT APPLICATION (continued)



BASECOAT RECOAT



- Apply recommended [Sherwin-Williams® Premium Clearcoats](#) over Ultra 9K™ Basecoat Color once fully dehydrated.
- To avoid surface contamination it is recommended to clearcoat Ultra 9K™ Basecoat Color within 24 hours, preferably same day.
- Beyond 24 hours it is advised to scuff, clean and reapply.

DRYING SCHEDULE

Dehydration times between coats of base and base to clearcoat are dependent on temperature, humidity, and airflow. The use of Venturi and heated air diffuser equipment will shorten flash times.

Hand Slick - When a finger is dragged lightly across the paint film and no marks are left behind on the painted surface.

Thumb Twist - Apply moderate pressure with a thumb and rotate or twist the thumb adjacent to the repair panel (i.e. masking tape) Note the reaction of the paint film - if no movement of the film is observed, this is considered passing.

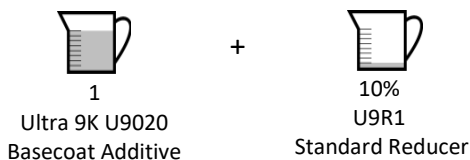
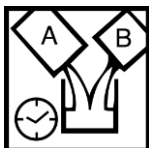
NOTE: Higher humidity will extend flash times. Lower humidity will shorten flash times.



SHERWIN-WILLIAMS®
Automotive Finishes

Ultra 9K™ Waterborne Basecoat Intermix Color (U9K)

BLENDER



- The blender once reduced at 10% with U9R1 has a potlife of 6 months.
- Incorporate reducer into Ultra 9K™ U9020 with a plastic stir stick. **Hand stir only.**
- Recommended strainer: 125 micron.
- Refresh container and filter when using previously reduced or stored material.

BLENDER APPLICATION



- Apply one full even wet coat of blender.
- Dehydrate blender till hand slick.
- Refer to the [Ultra 9K™ Basecoat Spraygun Chart](#) for individual spray gun settings.

PERSONAL PROTECTION



- Read label, directions, and SDS before use and refer to SDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product.



REGULATORY DATA

ULTRA 9K™ Waterborne Basecoat INTERMIX COLOR PREFIX U9K						
Mix:	As Packaged		1-PART Ultra 9K™ Basecoat Color		1-PART Basecoat Additive U9020	
			10% U9R1		10% U9R1	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)						
Regulatory Data	As Packaged		Ultra 9K™ Basecoat Color As Applied		Basecoat Additive As Applied	
	lb/gal	g/l	lb/gal	g/l	lb/gal	g/l
Density	8.49	1017	8.47	1015	8.38	1004
	% by weight	% by volume	% by weight	% by volume	% by weight	% by volume
Total Volatiles	82.1	85.4	83.7	86.7	85.5	86.6
Water	71.3	72.9	73.6	75.1	82.6	83.3
Exempt Compounds	0.0	0.0	0.0	0.0	0.0	0.0
t-butyl acetate	0.0	0.0	0.0	0.0	0.0	0.0
Organic Volatiles	10.8	12.5	10.1	11.6	2.9	3.3
Percent Non-Volatile	17.9	14.6	16.3	13.3	14.5	13.4
	lb/gal	g/l	lb/gal	g/l	lb/gal	g/l
VOC Total	0.91	109	0.85	102	0.24	29
VOC Less Exempt	3.37	404	3.42	410	1.46	175
Hazardous Air Pollutants (Clean Air Act, Section 112(b))						
	lb/gal	kg/l	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0	0	0	0	0	0
VHAPS of Solids	0	0	0	0	0	0

LABEL CAUTION INFORMATION

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at <http://www.sherwin-automotive.com>. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS**. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917.

SPRAY GUN SETTINGS

AIR PRESSURE SETTINGS

These are recommended starting points using the spray guns listed. Due to inconsistencies that exist between various brands of Air Pressure Regulators, these recommended pressures may need to be adjusted based on the specific equipment you are using. It is important to select spray guns according to your spray environment.

SPRAY GUN DISTANCES

Use the below spray gun distance ranges as starting points based on your spray conditions.

- For dry conditions (< 20% RH), the lower end of the listed distance range is recommended.
- For humid conditions (> 55% RH), the higher end of the listed range is recommended.

Manufacturer	Model	PSI Coverage/ Orientation Coat	Gun Distance Coverage Coat*	Gun Distance Orientation Coat*	PSI Dropcoat	Dropcoat Gun Distance	Fluid Turns Out	Fan Settings	Tip Size	
Iwata	LS400 (Entech) HVLP	24	6-8"	8-11"	14	10-12"	Full Open	1.5-2 Turns Closed	1.3	1.4
Iwata	WS400 (Evotech)	28	6-10"	9-13"	14	10-12"	Full Open	1.5-2 Turns Closed	1.3	1.4
Sata	5000/5500 HVLP	28	4-8"	7-11"	14	11-15"	Full Open	Full Open	1.3	1.4
Sata	5000/5500 RP	28	8-10"	11-13"	14	14-18"	Full Open	Full Open	1.3	1.4
DeVilbiss	Tekna Prolite (TE20)	26	8-11"	9-12"	14	13-15"	Full Open	Full Open	1.3	1.4
DeVilbiss	Tekna 7E7	22	8-11"	9-12"	14	13-15"	3 Turns - Full Open	Full Open	1.3	1.4
DeVilbiss	DV1	20	8-11"	9-12"	14	13-15"	Full Open	Full Open	1.3	1.4
3M	PSG	20	4-6"	8-10"	15	8-12"	Full Open	2 Turns From Closed	1.3	1.4

* If applying singe coats with full dehydration between coats (see Application Method 2 on the PDS), please refer to "coverage coat" gun distance.

** In "Cool and Humid" conditions a 1.2 fluid tip may be preferred for small repairs.

NOTE:

- A dirty or worn nozzle set/air cap will not produce the results of a clean, properly maintained one.
- For questions regarding the correct spray equipment for your environment, please contact your local Sherwin-Williams Automotive Finishes Technical Representative for assistance.

COOL AND HUMID**

Temp: 60-68°F
Humidity: >55%

MODERATE WEATHER

Temp: 68-95°F
Humidity: 20-80%

HOT/WARM AND DRY

Temp: 85+°F
Humidity: <20%

S3-6

DECEMBER 3, 2020

SHELF LIFE EXTENDED - ULTRA 9K™ TONERS

Sherwin-Williams Automotive Finishes continues to improve and optimize Ultra 9K™ Waterborne Refinish System. After extensive research and evaluation, the published shelf life of 37 toners will now be extended. See below for the list of toners that had their shelf life extended.

Benefits of Extended Shelf Life:

- Ensures product quality and color consistency for longer.
- Reduces inventory constraints due to short shelf life.
- Longer distribution and selling cycles.

Key Details:

- Shelf life is extended for all current and future batches of these toners.
- Shelf life begins on the manufactured Batch Date for all products. It is important to locate the batch date stamped to its container when checking the shelf life as it varies by product.
- There are 2 formats to determine when the batch was manufactured. Refer to page 2 for more information on how to properly determine batch date.

If you would like to obtain a Safety Data Sheet (SDS), Product Data Sheet (PDS), or more information on the Ultra 9K Waterborne Refinish System, contact the Sherwin-Williams Automotive Finishes Customer Service Rep Helpline at 877-359-7598, or visit www.sherwin-automotive.com

SW Part #	Part #	Description	Current Shelf Life (Years)	New Shelf Life (Years)
U9002LH	U9002	Special Black	1.5	2
U9003LH	U9003	Black	2	3
U9004LH	U9004	Deep Black	1.5	2
U9010LH	U9010	Trans White	2	3
U9042LH	U9042	Bright Small Metallic	2	3
U9043LH	U9043	Coarse Metallic	2	3
U9044LH	U9044	Very Coarse Metallic	2	3
U9050LF	U9050	Fine White Pearl	2	3
U9051LF	U9051	Small White Pearl	2	3
U9052LH	U9052	White Pearl	2	3
U9053LF	U9053	Crystal Silver Pearl	2	3
U9060LF	U9060	Gold Pearl	2	3
U9061LF	U9061	Sunbeam Gold Pearl	2	3
U9070LF	U9070	Copper Pearl	2	3
U9080LF	U9080	Small Red Pearl	2	3
U9081LF	U9081	Red Pearl	2	3
U9082LF	U9082	Bright Red Pearl	2	3
U9083LF	U9083	Radiant Red Pearl	2	3
U9090LF	U9090	Purple Pearl	2	3
U9100LF	U9100	Fine Blue Pearl	2	3
U9101LH	U9101	Blue Pearl	2	3
U9102LF	U9102	Galaxy Blue Pearl	2	3
U9110LF	U9110	Green Pearl	2	3
U9111LF	U9111	Blue Green Pearl	2	3
U9112LF	U9112	Stellar Green Pearl	2	3
U9120LF	U9120	Bright Red	1.5	3
U9121LF	U9121	Scarlet Red	2	3
U9122LH	U9122	Magenta	2	3
U9123LF	U9123	Trans Red	1.5	2
U9124LF	U9124	Red Oxide	1.5	3
U9125LF	U9125	Red Transoxide	2	3
U9131LH	U9131	HS Purple	2	3
U9150LF	U9150	HS Yellow Shade Green	2	3
U9161LF	U9161	Copper Brown	2	3
U9170LF	U9170	Bright Yellow	1.5	2
U9171LF	U9171	Trans Red Shade Yellow	2	3
U9173LF	U9173	Pale Yellow	1	2

S3-7

HOW TO READ BATCH DATE

- Shelf life begins on the manufactured Batch Date for all products. It's important to locate the batch date stamped to its container when checking the shelf life as the it does vary by product.
- There are 2 formats to determine when the batch was manufactured:

1. Format: XYZZZZZZZZZZ

"X" = Year

"Y" = Month (October = T, November = V, December = W)

"ZZZZZZZZ" = Internal plant code

Example: 9852122318 (August 2019)

9 = 2019

8 = August

52122318 = Internal plant code

2. Format: XXDDDDYYZZ

"XX" = Internal plant code

"DDD" = Day of the year

"Y" = Year

"ZZ" = Internal plant code

Example: MQ2608AB (September 17, 2018)

MQ = Internal plant code

260 = 260th day of the year (September 17)

8 = 2018

AB = Internal plant code

NOTE: Please use technical data sheets to determine the shelf life for each product.

HOW TO READ BATCH DATES

- Shelf life begins on the manufactured Batch Date for all products. It is important to locate the batch date stamped to its container when checking the shelf life as the it does vary by product.
- There are 2 formats to determine when the batch was manufactured:

1. Format: XYZZZZZZZZZ

“X” = Year

“Y” = Month (October = T, November = V, December = W)

“ZZZZZZZZ” = Internal plant code

Example: 9852122318 (August 2019)

9 = 2019

8 = August

52122318 = Internal plant code

2. Format: XXDDDDYZZ

“XX” = Internal plant code

“DDD” = Day of the year

“Y” = Year

“ZZ” = Internal plant code

Example: MQ2608AB (September 17, 2018)

MQ = Internal plant code

260 = 260th day of the year (September 17)

8 = 2018

AB = Internal plant code

NOTE: Please use technical data sheets to determine the shelf life for each product

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at www.sherwin-automotive.com. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917.

S3-9



ULTRA
9KTM

Clearcoats



SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

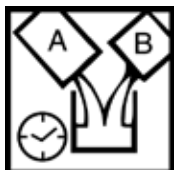
HPC15

With AIR-BAKE™ Technology
SPOT REPAIR (1-3 panels) OPTION






SUITABLE SUBSTRATES

- OEM Topcoats
- Aged Refinishes
- ULTRA 7000® Basecoat Colors
- Properly Prepared Flexible Plastics



MIXING - Spot Repair Option (1- 3 panels)

 +  + 

5 HP Process™ Clearcoat HPC15

1 ULTRA SYSTEM® Reducers US2, US3, or US4

1 ULTRA SYSTEM® Hardener UH80

See **NOTES** section below - alternative mixing ratio exists for Multi-panel repairs.

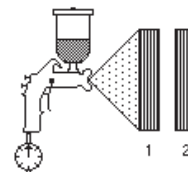
REDUCER	AIR-BAKE™
US2 – Cool	50°F - 70°F
US3 – Moderate	70°F - 85°F
US4 – Warm	80°F - 95°F

Note: If above 90°F, limit to vertical panels or use the multi-panel mix ratio option.



SPEED/PRODUCTIVITY APPLICATION

- 7-8 psi at air cap - HVLP.
- 18-30 psi inlet - Compliant spray guns.
- Recommended fluid nozzle is 1.3-1.4 mm.
- Recommended dry film thickness is 1.4-1.8 mils.
- Gun distance of 5-7 inches.
- Panel by panel application is recommended.
- Apply 2 wet coats with no flash between coats (one double wet coat).

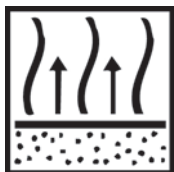


Please consult your technical representative for training on the speed/productivity application technique. This technique is preferred and enhances shop productivity once the technician has been trained. Best results will be achieved by using 7-8 psi at air cap, which is slightly less psi than for most high solids clearcoats.

TO BLEND CLEARCOAT EDGE

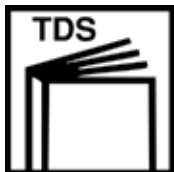
For in-panel blends, apply the second coat of the double wet coat application slightly beyond your first coat completely covering the overspray edge from the first pass. Immediately following this, melt in the overspray edge using Sherwin-Williams® Ure-Blend® 1K Urethane Blending Solvent BS11 (Aerosol). Apply only enough blending solvent necessary to melt blend edge.

DRYING SCHEDULE



	AIR-BAKE™
Dust Free	5-7 minutes
To Sand / Buff*	15-30 minutes
*15 minutes = 1.4-1.8 mils at 75°F	
Applying higher film builds <u>will</u> extend the time to sand and buff.	

NOTES



- Pot life: 2 hours at 75° F.
- If a second application (double wet coat) is desired, the first application must be fully cured (45 minutes at 75°F). Scuff sand with P800 grit or finer sandpaper on a DA with interface pad. Remove sanding dust, and tack clean before applying more clearcoat.
- If fisheyes are a problem, add ½ ounce of Sherwin-Williams® Fisheye Eliminator V3K780 per sprayable quart of clearcoat. Do not use fisheye eliminator in Basecoat Color.
- For Multi-panel (3 or more) repair option see page 2.



SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

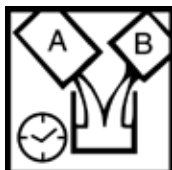
HPC15

With AIR-BAKE™ Technology
MULTI-PANEL OPTION



SUITABLE SUBSTRATES

- OEM Topcoats
- Aged Refinishes
- ULTRA 7000® Basecoat Colors
- Properly Prepared Flexible Plastics



MIXING - Multi-Panel Option (3 or more panels)

See **NOTES** section below - alternative mixing ratio exists for repairs over AWX®

4 HP Process™ Clearcoat HPC15
1 ULTRA SYSTEM® Reducers US3, US4*, or US5*
1 ULTRA SYSTEM® Hardeners UH80 or UH90**

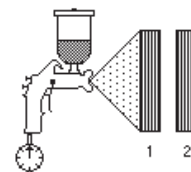
REDUCER	AIR-BAKE™
US3 – Moderate	70°F - 80°F
*Preferred: US4 – Warm	80°F - 90°F
*Preferred: US5 – Hot	90°F - 100°F

** Use UH90 only in HPC15 multi-panel option, if 90°F or higher.

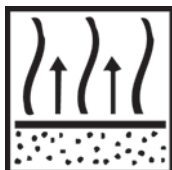


SPEED/PRODUCTIVITY APPLICATION

- 7-8 psi at air cap - HVLP.
- 18-30 psi inlet - Compliant spray guns.
- Recommended fluid nozzle is 1.3-1.4 mm.
- Recommended dry film thickness is 1.4-2.0 mils.
- Gun distance of 5-7 inches.
- Panel by panel application is recommended.
- Apply 2 wet coats with no flash between coats (one double wet coat).



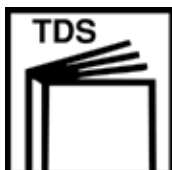
Please consult your technical representative for training on the speed/productivity application technique. This technique is preferred and enhances shop productivity once the technician has been trained. Best results will be achieved by using 7-8 psi at air cap, which is slightly less psi than for most high solids clearcoats.



DRYING SCHEDULE

	AIR-BAKE™
Dust Free	10 minutes
To Sand / Buff*	25-40 minutes
* 25-40 minutes = 1.4-2.0 mils at 75°F	
Applying higher film builds <u>will</u> extend the time to sand and buff.	

NOTES



- Pot life: 2 hours at 75° F.
- If a second application (double wet coat) is desired, the first application must be fully cured (45 minutes at 75°F). Scuff sand with P800 grit or finer sandpaper on a DA with interface pad. Remove sanding dust, and tack clean before applying more clearcoat.
- If fisheyes are a problem, add ½ ounce of Sherwin-Williams® Fisheye Eliminator V3K780 per sprayable quart of clearcoat. Do not use fisheye eliminator in Basecoat Color.
- For AWX Performance Plus™ Waterborne Basecoat option see page 3.



SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

HPC15

With AIR-BAKE™ Technology

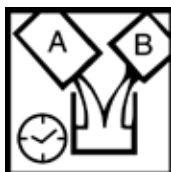
(AWX PERFORMANCE PLUS™ WATERBORNE BASECOAT OPTION)

PRODUCT DATA SHEET




SUITABLE SUBSTRATES

- OEM Topcoats
- Properly Prepared Flexible Plastics
- Aged Refinishes
- AWX Performance Plus™ Waterborne Basecoat Colors



MIXING - AWX PERFORMANCE PLUS™ WATERBORNE BASECOAT OPTION


4 HP Process™ Clearcoat HPC15 + 1 ULTRA SYSTEM® Reducers US2, US3, US4, or US5 + 1 ULTRA SYSTEM® Hardeners UH80 or UH90**

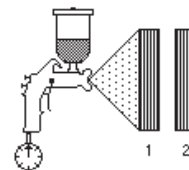
REDUCER	AIR-BAKE™
US2 – Cool	50°F - 70°F
US3 – Moderate	70°F - 80°F
US4 – Warm	80°F - 90°F
US5 – Hot	90°F - 100°F

** Use UH90 only in HPC15 as a multi-panel Option, if 90°F or higher.



SPEED/PRODUCTIVITY APPLICATION

- 7-8 psi at air cap - HVLP.
- 18-30 psi inlet - Compliant spray guns.
- Recommended fluid nozzle is 1.3-1.4 mm.
- Recommended dry film thickness is 1.8-2.5 mils.
- Gun distance of 5-7 inches.
- Panel by panel application is recommended.
- Apply 2 wet coats with no flash between coats (one double wet coat).



Please consult your technical representative for training on the speed/productivity application technique. This technique is preferred and enhances shop productivity once the technician has been trained. Best results will be achieved by using 7-8 psi at air cap, which is slightly less psi than for most high solids clearcoats.

Alternate application over AWX Performance Plus™ Waterborne Basecoat Colors:

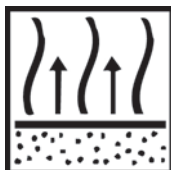
- Apply 1 single wet coat over the Basecoated areas only.
- Allow this to flash for 60-seconds.
- Apply two wet coats with no flash between coats over the entire panel.

SPECIAL NOTE FOR COLDER CLIMATES WITH HIGH HUMIDITY

When using Sherwin-Williams® HP Process™ Clearcoat HPC15 over AWX Performance Plus™ Waterborne Basecoat it is recommended to perform an Infra Red (IR) "After-Bake" prior to placing the vehicle out into a cold, damp environment. IR "After-Bake" application should be done outside the booth to avoid slowing booth productivity. We recommend allowing the HP Process™ Clearcoat HPC15 to "Air-Bake" for 15-20 minutes inside the booth then move the vehicle to an area of the shop where a 5-minute IR "After-Bake" at 120°F can be applied to the repair area. This will ensure that the AWX Performance Plus™ Waterborne Basecoat Color and the HP Process™ Clearcoat HPC15 are sufficiently cured to safely go out into a cold, damp environment.

TO BLEND CLEARCOAT EDGE

For in-panel blends, apply the second coat of the double wet coat application slightly beyond your first coat completely covering the overspray edge from the first pass. Immediately following this, melt in the overspray edge using Sherwin-Williams® Ure-Blend® 1K Urethane Blending Solvent BS11 (Aerosol). Apply only enough blending solvent necessary to melt blend edge.

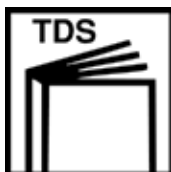


DRYING SCHEDULE

	AIR-BAKE™
Dust Free	10 minutes
To Sand / Buff*	25-40 minutes
* 25-40 minutes = 1.8-2.5 mils at 75°F	
Applying higher film builds <u>will</u> extend the time to sand and buff.	

NOTES

- Pot life: 2 hours at 75° F.
- If a second application (double wet coat) is desired, the first application must be fully cured (45 minutes at 75°F). Scuff sand with P800 grit or finer sandpaper on a DA with interface pad. Remove sanding dust, and tack clean before applying more clearcoat.
- If fisheyes are a problem, add ½ ounce of Sherwin-Williams® Fisheye Eliminator V3K780 per sprayable quart of clearcoat. Do not use fisheye eliminator in Basecoat Color.





SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

HPC15

With AIR-BAKE™ Technology

PRODUCT DESCRIPTION

Sherwin-Williams® HP Process™ Clearcoat HPC15 with AIR-BAKE™ Technology is an extremely productive clearcoat designed for a range of speed applications from single to multi-panel repairs. As one of the premium clearcoat offerings from Sherwin-Williams Automotive Finishes, HP Process™ Clearcoat HPC15 offers outstanding application properties, gloss, appearance, and buffability. HP Process™ Clearcoat HPC15 offers an extremely fast cycle time for increased productivity and does not require the use of a high temperature bake cycle, which generates substantial energy savings. It meets National Rule VOC Regulations.

SURFACE PREPARATION

Sherwin-Williams® HP Process™ Clearcoat HPC15 is designed for use over AWX Performance Plus™ Waterborne Basecoat Colors and/or ULTRA 7000® Basecoat Colors, and properly prepared OE clearcoat in the case of blending.

1. For spot repairs 1-3 panels - See page 1 of product data sheet.
2. For multi-panel repairs (3 or more) - See page 2 of product data sheet.
3. For repairs over AWX Performance Plus™ Waterborne Basecoat Colors - See page 3 of product data sheet.

Preparation for Blending Panels

1. Clean with appropriate Sherwin-Williams® surface cleaner* and wipe dry with a clean cloth.
2. Blend panel should be sanded with P800 grit or finer paper, or scuff sanded with a gray scuff pad and ULTRA SYSTEM® Liquid Scuffing Agent USP90 and water. Rinse thoroughly and dry with a clean cloth.
(Only sand with P800 grit paper for AWX Performance Plus™ Waterborne Basecoat Colors. Do Not use USP90 with AWX Performance Plus™ Waterborne Basecoat Colors.)
3. Repeat step one, and then thoroughly tack surfaces with a clean tack cloth.

**Check local regulations regarding the use of surface cleaners.*

- Allow AWX Performance Plus™ Waterborne Basecoat Color to flash 10-20 minutes or completely dehydrate before applying clearcoat.
- Allow ULTRA 7000® Basecoat Color to flash 10-20 minutes before applying clearcoat.



PERSONAL PROTECTION

- For use by trained professionals only.
- Read label, directions, and MSDS before use.
- Use appropriate Personal Protective Equipment while mixing and spraying.

REGULATORY DATA

	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	7.75	928	7.86	941
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	60.7	67.3	59.4	66.2
Water	0	0	0	0
Exempt Compounds	22.7	26.7	15.0	17.8
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	2.94	352	3.49	418
VOC Less Exempt	4.01	481	4.25	509
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0.00	0.00	0.14	0.017



SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

HPC15

With AIR-BAKE™ Technology

LABEL CAUTION INFORMATION

Sherwin-Williams® HP Process™ Clearcoat HPC15

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. **VAPOR HARMFUL.** Use only with adequate ventilation. This product must be used with an appropriate catalyst. Follow the respirator requirement and instructions on the catalyst. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** If **INHALED:** If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

ULTRA SYSTEM® Reducers US2, US3, US4, and US5

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. CAN BE ABSORBED THROUGH THE SKIN. MAY CAUSE BLOOD DAMAGE. Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. **VAPOR HARMFUL.** Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** If **INHALED:** If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Contains Ethylene Glycol Monobutyl Ether Acetate which may cause blood damage. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.



SHERWIN-WILLIAMS®
Automotive Finishes

HP Process™ Clearcoat

HPC15

With AIR-BAKE™ Technology

ULTRA SYSTEM® Hardener UH80 and UH90

DANGER! FLAMMABLE! VAPOR AND SPRAY MIST HARMFUL, OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION, EFFECTS MAY BE PERMANENT. CAUSES EYE IRRITATION. HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONGTERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. IRRITATES SKIN AND EYES. Avoid contact with eyes and skin. In case of eye contact, flush immediately with plenty of water for 15 minutes and call a doctor - If not available get emergency medical treatment. In case of skin contact, wash thoroughly with soap and water. Clothes contaminated by a spill should be removed and laundered. Keep container closed when not in use. Reacts with water in closed container to produce pressure which may cause container to burst. Do not transfer contents to other containers for storage. FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.



SHERWIN-WILLIAMS®
Automotive Finishes

HPC21

HP Process™

National Rule Clearcoat

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

Sherwin-Williams® HP Process™ Clearcoat HPC21 is an extremely productive clearcoat designed for a range of speed applications from single to multi-panel repairs. This clearcoat offers outstanding application properties, gloss, appearance, and buffability. HP Process™ Clearcoat HPC21 offers a very fast cycle time and does not require the use of a high temperature bake cycle, which allows for increased productivity and energy savings. This clearcoat is workable and buffable in as little as 20 minutes at 75 degrees Fahrenheit.

- See special note for colder climates with high humidity – HP Process™ Clearcoat HPC21 over AWX Performance Plus™ Waterborne Basecoat Colors.

SURFACE PREPARATION:

HP Process™ Clearcoat HPC21 is designed for use over:

- AWX Performance Plus™ Basecoat color
 - Allow AWX Performance Plus™ Basecoat to flash to [thumb twist](#) before applying clearcoat
- ULTRA 7000® Basecoat color
 - Allow ULTRA 7000® Basecoat to flash 10-20 minutes before applying clearcoat
- ULTRA BC8™ Basecoat Color
 - Allow ULTRA BC8™ Basecoat Color to flash 10-20 minutes before applying clearcoat.
- Properly prepared OE clearcoat in the case of blending*

***See the appropriate [AWX Performance Plus™](#) or [Ultra 7000®](#) Best Demonstrated Practices for instructions on how to properly prepare panels for blending, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

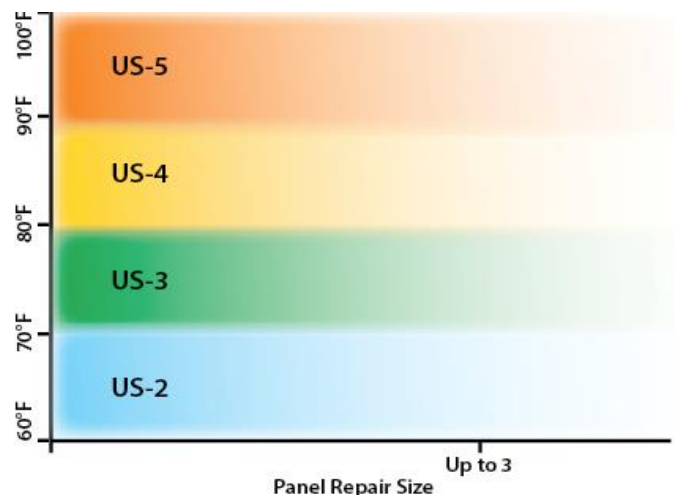
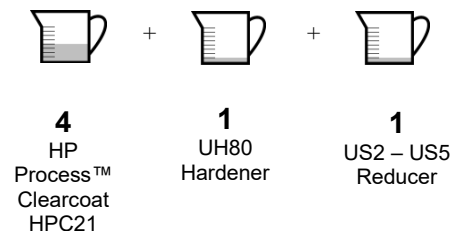
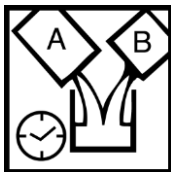
SUITABLE SUBSTRATES:



- OEM topcoats
- Aged Refinishes
- Ultra BC8™

- AWX Performance Plus™ Basecoat
- Ultra 7000® Basecoat

MIXING:



Reducer Selection Chart – to be used for baking situations. Please refer to [Premium Clearcoat Selection Guide](#) for more information.



SHERWIN-WILLIAMS®
Automotive Finishes

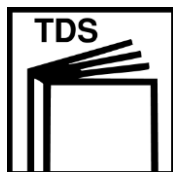
HPC21

HP Process™

National Rule Clearcoat

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

NOTES:



- Pot life: 2 hours at 75° F.
- Do not add accelerator to this clearcoat.
- If fisheyes are a problem, add ½ ounce of Sherwin-Williams® Fisheye Eliminator V3K780 per sprayable quart of HPC21 clearcoat. Do not use fisheye eliminator in Basecoat Color.
- If a second application (double wet coat) is desired, the first application must be fully cured (45 minutes at 75°F). Scuff sand with P800 grit or finer sandpaper on a DA with interface pad. Remove sanding dust, and tack clean before applying more clearcoat.

APPLICATION:



- Refer to the [spray gun set up chart](#) for proper equipment and settings.
- Gun distance of 5 – 7 inches.
- Apply an even wet first coat, without missed areas.
- Allow to flash for up to 2 minutes before applying second coat or apply 2 wet coats back to back.
- Recommended film build is 1.8 – 2.5 mils (dry).
- For extra flow and leveling, use next higher US reducer (e.g. if you are using US4, substitute US5),

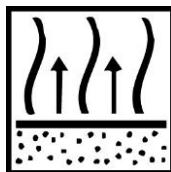
or blend US reducers that best fit the application conditions.

- TO BLEND CLEARCOAT EDGE: Use BS12 Ure-Blend® Clearcoat Blender, apply only enough clearcoat blender necessary to melt blend edge.

- **SPECIAL NOTE FOR COLDER CLIMATES WITH HIGH HUMIDITY**

When using HP Process™ Clearcoat HPC21 over AWX Performance Plus™ Waterborne Basecoat Color, it is recommended to perform an Infra Red (IR) “After-Bake” prior to placing the vehicle out into a cold, damp environment. IR “After-Bake” application should be done outside the booth to avoid slowing booth productivity. We recommend allowing the HP Process™ Clearcoat HPC21 to “Air-Bake” for 15-20 minutes inside the booth then move the vehicle to an area of the shop where a 5-minute IR “After-Bake” at 120°F can be applied to the repair area. This will ensure that the AWX Performance Plus™ Waterborne Basecoat Color and the HP Process™ Clearcoat HPC21 are sufficiently cured to safely go out into a cold, damp environment.

DRYING SCHEDULE:



	Air-Dry
Dust Free	5-10 minutes
To Sand / Buff*	20-35 minutes
* 20 minutes = 1.8-2.5 mils at 75°F	

** Applying higher film builds will extend the time to sand and buff.

RECOAT:

If a second application of clearcoat is desired, the first application must be fully cured. Scuff sand with P800 grit or finer sandpaper on a DA with interface pad. Remove sanding dust, and tack clean before applying more clearcoat.



SHERWIN-WILLIAMS®
Automotive Finishes

HPC21

HP Process™

National Rule Clearcoat

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

REGULATORY DATA:

HPC21 HP Process™ Clearcoat				
	4-PARTS		1-PART	1-PART
	HPC21		US4	UH80
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	8.43	1009	8.34	999
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	63.7	66.6	61.1	65.2
Water	0.0	0.0	0.0	0.0
Exempt Compounds	51.1	52.1	34.4	34.7
t-butyl acetate	0.0	0.0	0.0	0.0
Organic Volatiles	12.5	14.5	26.6	30.5
Percent Non-Volatile	36.3	33.4	38.9	34.8
	lb/gal	g/l	lb/gal	g/l
VOC Total	1.05	126	2.22	266
VOC Less Exempt	2.2	264	3.40	408
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.00	0.000	0.14	0.017
VHAPS of Solids	0.00	0.000	0.42	0.050

PERSONAL PROTECTION:



- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

Label Caution Information:

HPC21 HP Process™ Clearcoat

Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.1% Emergency telephone number US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year



SHERWIN-WILLIAMS®
Automotive Finishes

HPC21

HP Process™

National Rule Clearcoat

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

UH80 ULTRASYSTEM® Low VOC Air Dry Hardener

Danger. Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a well ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear respiratory protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a **POISON CENTER** or physician.

Storage: Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

US2 ULTRA-SOLV® Reducer, #2; ULTRA-SOLV® Reducer, #3

Danger. Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

US4 ULTRA-SOLV® Reducer, #4; ULTRA-SOLV® Reducer, #5; ULTRA-SOLV® Reducer, #6

Warning. Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Emergency telephone number (216) 566-2917



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

CC200 Dynamic Clearcoat creates a new category amongst premium clearcoats, offering superior appearance in half the time of a typical glamour clearcoat. Delivering consistent premium appearance without sacrificing productivity this clear is designed for any painter, application, and repair environment. With a fast application time and quick, low-temp bake cycle, CC200 Dynamic Clearcoat will help improve any shop's productivity and profit. CC200 Dynamic Clearcoat delivers excellent gloss, hold out, and appearance and can be "short-baked" for increased productivity. With the unique Ure-Flex™ technology that is incorporated into this product, there is no need for a flex additive for flexible substrates. Meets National Rule VOC regulations.

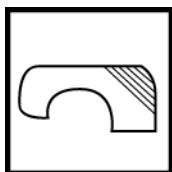
SURFACE PREPARATION:

Dynamic Clearcoat CC200 is designed for use over:

- Ultra 9K™ Basecoat color
 - Allow ULTRA 9K™ Basecoat to flash to thumb twist before applying clearcoat.
- ULTRA 7000® Basecoat color
 - Allow ULTRA 7000® Basecoat to flash 10-20 minutes before applying clearcoat
- AWX Performance Plus™ Basecoat color
 - Allow AWX Performance Plus™ Basecoat to flash to [thumb twist](#) before applying clearcoat
- Properly prepared OE clearcoat in the case of blending*

***See the appropriate [Ultra 7000®](#) or [AWX Performance Plus™](#) Best Demonstrated Practices for instructions on how to properly prepare panels for blending, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

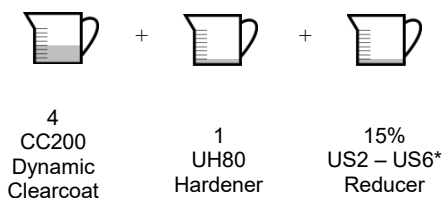
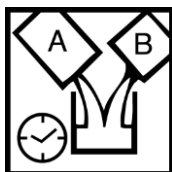
SUITABLE SUBSTRATES:



- OEM topcoats
- Aged Refinishes
- ULTRA 9K™

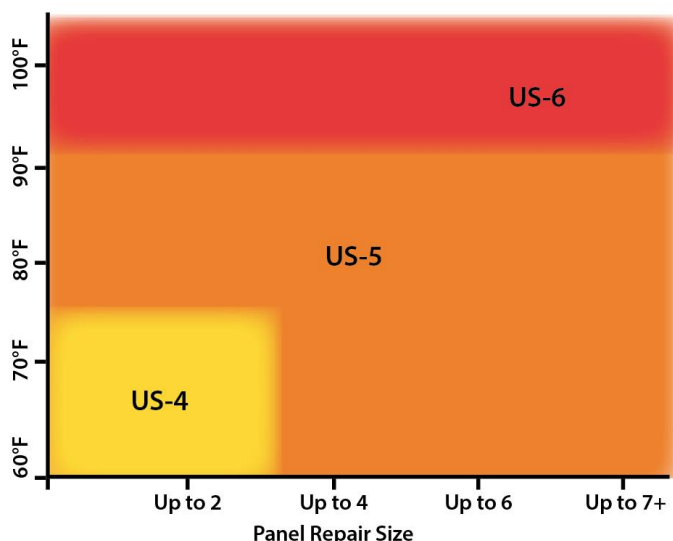
- Ultra 7000® Basecoat
- AWX Performance Plus™ Basecoat
- Genesis G4 Basecoat

MIXING:



*US2 and US3 reducers should only be used for Air-Dry

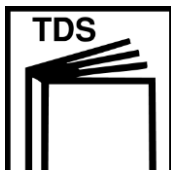
Reducer Selection Chart – to be used for baking situations. Please refer to [Premium Clearcoat Selection Guide](#) for Reducer Selection Chart when Air-Dry option is used.





Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

NOTES:



- Pot life: 2 hours at 70° F.
- If fisheyes are a problem, add ½ ounce of V3K780 Fisheye eliminator per sprayable quart of clearcoat. Do not use fisheye eliminator in basecoat color.
- Max recoat time between coats is 15-20 minutes.

APPLICATION:

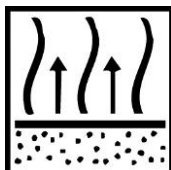


- Refer to the [spray gun set up chart](#) for proper equipment and settings.
- Apply 2 coats – Gun distance of 4 – 6 inches.
- Apply an even wet first coat, without missed areas.
- Allow to flash for 2 – 5 minutes before applying second coat.
- Recommended film build is 2.0 – 3.5 mils (dry).

NOTE: For extra flow and leveling, use next higher US reducer (e.g. if you are using US4, substitute US5), or blend US reducers that best fit the application conditions.

TO BLEND CLEARCOAT EDGE: Use BS12 Ure-Blend® Clearcoat Blender, apply only enough clearcoat blender necessary to melt blend edge.

DRYING SCHEDULE:



***Do not exceed 150° F Surface Temperature while baking**

***Do not exceed 20 minute total bake time**

	**AIR-DRY	*140° F Surface Temp	*130° F Surface Temp	*120° F Surface Temp
Dust Free	In as little as 45 min.	5 min.	10 min.	20 min.
To Buff	In as little as 90 min.	Allow to cool 20 min.	Allow to cool 20 min.	Allow to cool 20 min.
To Deliver	In as little as 90 min.	Allow to cool 20 min.	Allow to cool 20 min.	Allow to cool 20 min.

**Air-Dry times can be affected by temperature, reducer selection, film build, etc. and may feel soft to touch even when ready to sand/buff.

REGULATORY DATA:

CC200 Dynamic Clearcoat				
4-PARTS CC200	1-PART UH80		15% US4	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	7.96	954	8.07	966
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	54.7	61.6	53.3	60.2
Water	0.0	0.0	0.0	0.0
Exempt Compounds	13.3	16.1	9.1	11.2
Organic Volatiles	41.4	45.6	44.1	49.0
Percent Non-Volatile	45.3	38.4	46.7	39.8
	lb/gal	g/l	lb/gal	g/l
VOC Total	3.29	394	3.56	426
VOC Less Exempt	3.92	470	4.0	480
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.00	0.000	0.11	0.013
VHAPS of Solids	0.00	0.000	0.28	0.034



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PERSONAL PROTECTION:



- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

Label Caution Information:

CC200 Dynamic Clearcoat

Danger. Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN** (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.3%

UH80 ULTRASYSTEM® Low VOC Air Dry Hardener

Danger. Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a well ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear respiratory protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN** (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a **POISON CENTER** or physician. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. **VAPOR AND SPRAY MIST HARMFUL.** Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

US2 ULTRA-SOLV® Reducer, #2; ULTRA-SOLV® Reducer, #3

Danger. Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

US4 ULTRA-SOLV® Reducer, #4; ULTRA-SOLV® Reducer, #5; ULTRA-SOLV® Reducer, #6

Warning. Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Emergency telephone number (216) 566-2917

V3K780 Fisheye Eliminator

Danger Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 13.8%
Emergency telephone number (216) 566-2917



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

CC250 Dynamic+ Clearcoat adds an additional clearcoat to the speed glamour category amongst premium clearcoats, offering superior appearance in half the time of a typical glamour clearcoat. Delivering consistent premium appearance without sacrificing productivity this clear is designed for any painter, application or repair environment in North America. With a fast application time and quick, low-temp bake cycle, CC250 Dynamic+ Clearcoat will help improve any shop's productivity and profit. CC250 Dynamic+ Clearcoat delivers excellent gloss, hold out, and appearance and can be "short-baked" for increased productivity. With the unique Ure-Flex™ technology that is incorporated into this product, there is no need for a flex additive for flexible substrates.

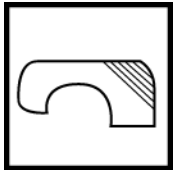
SURFACE PREPARATION:

Dynamic+ Clearcoat CC250 is designed for use over:

- Ultra 9K™ Basecoat color
 - Allow ULTRA 9K™ Basecoat to flash to [thumb twist](#) before applying clearcoat.
- ULTRA 7000® Basecoat color
 - Allow ULTRA 7000® Basecoat to flash 10-20 minutes before applying clearcoat
- AWX Performance Plus™ Basecoat color
 - Allow AWX Performance Plus™ Basecoat to flash to [thumb twist](#) before applying clearcoat
- ULTRA BC8™ Basecoat Color
 - Allow ULTRA BC8™ Basecoat to flash 10-20 minutes before applying clearcoat
- Properly prepared OE clearcoat in the case of blending*

***See the appropriate [Ultra 9K™](#), [Ultra 7000®](#), [Ultra BC8™](#) or [AWX Performance Plus™](#) Best Demonstrated Practices for instructions on how to properly prepare panels for blending, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

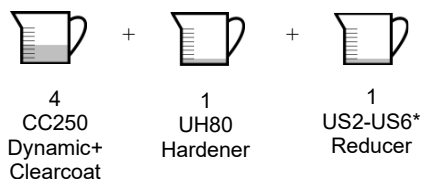
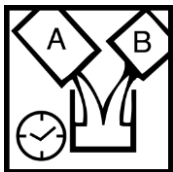
SUITABLE SUBSTRATES:



- OEM topcoats
- Aged Refinishes
- ULTRA 9K™
- ULTRA BC8™

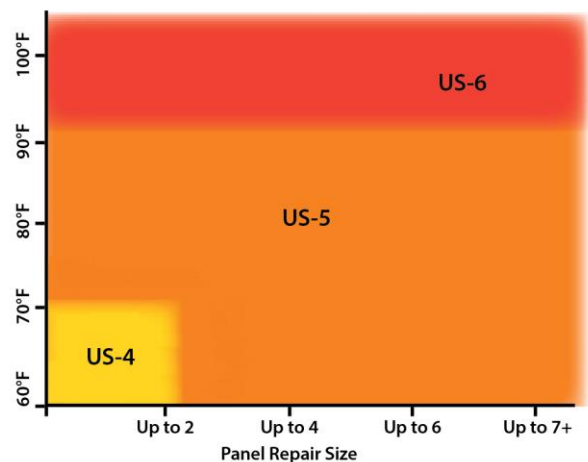
- Ultra 7000® Basecoat
- AWX Performance Plus™ Basecoat
- Genesis G4 Basecoat

MIXING:



*US2 and US3 reducers should only be used for Air-Dry

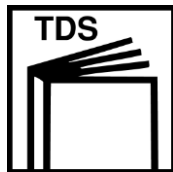
Reducer Selection Chart – to be used for baking situations





Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

NOTES:



- Pot life: 2 hours at 70° F.
- If fisheyes are a problem, add ½ ounce of V3K780 Fisheye eliminator per sprayable quart of clearcoat. Do not use fisheye eliminator in basecoat color.
- Max recoat time between coats is 15-20 minutes.

APPLICATION:

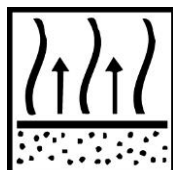


- Refer to the [spray gun set up chart](#) for proper equipment and settings.
- Apply 2 coats – Gun distance of 4 – 6 inches.
- Apply an even wet first coat, without missed areas.
- Allow to flash for 2 – 5 minutes before applying second coat.
- Recommended film build is 2.0 – 3.5 mils (dry).

NOTE: For extra flow and leveling, use next higher US reducer (e.g. if you are using US4, substitute US5), or blend US reducers that best fit the application conditions.

TO BLEND CLEARCOAT EDGE: Use BS12 Ure-Blend® Clearcoat Blender, apply only enough clearcoat blender necessary to melt blend edge.

DRYING SCHEDULE:



***Do not exceed 150° F Surface Temperature while baking**

***Do not exceed 30 minute total bake time**

	**AIR-DRY	*140° F Surface Temp	*135° F Surface Temp	*130° F Surface Temp
Dust Free	In as little as 55 min.			
Bake		10 min.	25 min.	30 min.
To Buff	In as little as 90 min.	Allow to cool 20 min.	Allow to cool 20 min.	Allow to cool 20 min.
To Deliver	In as little as 90 min.	Allow to cool 20 min.	Allow to cool 20 min.	Allow to cool 20 min.

**Air-Dry times can be affected by temperature, reducer selection, film build, etc. and may feel soft to touch even when ready to sand/buff.

PERSONAL PROTECTION:



- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

REGULATORY DATA:

CC250 Dynamic Clearcoat				
4-PARTS CC250	1-PART UH80		1-PART US4	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	9.18	1099	8.84	1059
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	59.1	59.6	58.1	60.5
Water	0.0	0.0	0.0	0.0
Exempt Compounds	44.9	41.5	31.0	27.8
Organic Volatiles	0.0	0.0	0.0	0.0
Percent Non-Volatile	40.9	40.4	41.9	39.5
	lb/gal	g/l	lb/gal	g/l
VOC Total	1.29	155	2.38	285
VOC Less Exempt	2.22	266	3.29	395
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.00	0.000	0.14	0.017
VHAPS of Solids	0.00	0.000	0.37	0.044

Label Caution Information:

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at <http://www.sherwin-automotive.com>. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917.



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

1100755 Elegance™ Clearcoat is a clearcoat designed for force-dry/ booth applications for use on multi-panel repairs to overall finishing. 1100755 offers the ultimate in gloss & DOI for high-end refinishing. Elegance™ Clearcoat also offers excellent application properties and buffability, while delivering a superior appearance.

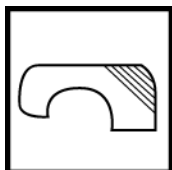
SURFACE PREPARATION:

Elegance™ Clearcoat is designed for use over:

- ULTRA 9K™ Basecoat color
 - Allow ULTRA 9K™ Basecoat to flash to thumb twist before applying clearcoat.
- ULTRA 7000® Basecoat color
 - Allow ULTRA 7000® Basecoat to flash 10-20 minutes before applying clearcoat
- ULTRA BC8™ Basecoat Color
 - Allow ULTRA BC8™ Basecoat to flash 10-20 minutes before applying clearcoat
- AWX Performance Plus™ Basecoat color
 - Allow AWX Performance Plus™ Basecoat to flash to [thumb twist](#) before applying clearcoat
- Genesis® Basecoat color
 - Allow Genesis® basecoats to flash at least 30 minutes before applying clearcoat.
- Properly prepared OE clearcoat in the case of blending*

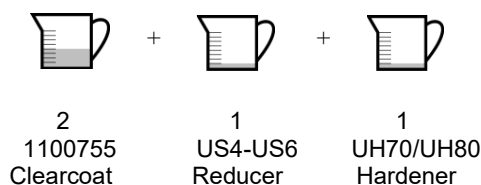
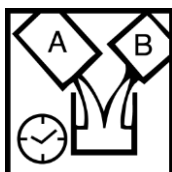
**See the appropriate [Ultra 7000®](#) or [AWX Performance Plus™](#) Best Demonstrated Practices for instructions on how to properly prepare panels for blending, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.*

SUITABLE SUBSTRATES:



- OEM topcoats
- Aged Refinishes
- ULTRA 9K™
- ULTRA BC8™
- Ultra 7000® Basecoat
- AWX Performance Plus™ Basecoat
- Genesis G4 Basecoat

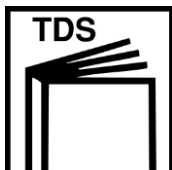
MIXING:



Reducer Selection Chart	
Reducer	Temperature Range
US4	65 - 90 F
US5	85 - 95 F
US6	95 + F

*Consider size of repair, air flow and spray conditions with reducer selection

NOTES:



- Pot life: 3 hours.
- Do not add accelerator to this clearcoat.
- If fisheyes are a problem, add ½ ounce of V3K780 Fisheye eliminator per sprayable quart of clearcoat. Do not use fisheye eliminator in basecoat color.
- Specifically designed for baking and downdraft environments involving multi-panel repairs



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

APPLICATION:



- Apply 2 wet coats using a limited flash application method.
- 10 psi at the air cap - HVLP
- 23-34 psi inlet – Compliant Spray Gun.
- See the application notes below for further details

NOTES:

OVERALL APPLICATION/MULTI-PANEL REPAIR – Apply 2 coats at a gun distance of 5 – 7 inches. First coat should be even without missed areas, but not heavy and wet. (No flash between coats is preferred/recommended or a 2-5 minute flash can be observed before the second coat) Recommended fluid nozzle = 1.3 - 1.4mm. Check for proper atomization. Desired film build is 2.0 – 2.5 mils (dry). Please consult your technical representative for training on the wet-on-wet, single application (limited flash) technique. This technique is preferred and enhances shop productivity once the technician has been trained. NOTE: For larger repairs or higher temperatures, use next higher reducer (i.e. if you are using US4, substitute US5).

TO BLEND CLEARCOAT EDGE – Use BS10 Ure-Blend® blending solvent in second gun at low-pressure 20 – 25 psi conventional and 5 psi HVLP cap pressure. Apply only enough blending solvent necessary to melt blend edge. DO NOT add BS10 directly to the 1100755 Elegance™ Clearcoat.

DRYING SCHEDULE:

	*AIR-DRY		30 minute BAKE at 140° F	
	UH70	UH80	UH70	UH80
Dust Free	In as little as 50 min.	Not recommended	Not recommended	Allow to cool 10 min.
To Buff	In as little as 100 min.	Not recommended	Not recommended	Allow to cool 2 hours.
To Deliver	In as little as 100 min.	Not recommended	Not recommended	Allow to cool 2 hours.

*Air-Dry times can be affected by temperature, reducer selection, film build, etc. and may feel soft to touch even when ready to sand/buff

REGULATORY DATA:

1100755 Elegance Clearcoat				
2-PARTS 1100755	1-PART US4		1-PART UH80	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	7.92	949	8.04	963
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	43.9	50.3	49.9	56.3
Water	0.0	0.0	0.0	0.0
Exempt Compounds	23.7	28.5	11.7	14.2
Organic Volatiles	20.2	21.9	38.3	42.1
Percent Non-Volatile	56.1	49.7	50.1	43.7
	lb/gal	g/l	lb/gal	g/l
VOC Total	1.60	191	3.07	368
VOC Less Exempt	2.23	268	3.58	430
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.00	0.000	0.21	0.026
VHAPS of Solids	0.00	0.000	0.50	0.060



SHERWIN-WILLIAMS®
Automotive Finishes

1100755 Elegance™ Clearcoat National Rule

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PERSONAL PROTECTION:



- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

Label Caution Information:

1100755 Elegance™ Clearcoat

DANGER! EXTREMELY FLAMMABLE - VAPORS MAY CAUSE FLASH FIRES! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT.

Before using, carefully read CAUTIONS on back panel. Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame.

Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. **VAPOR HARMFUL.** Use only with adequate ventilation. This product must be used with an appropriate catalyst. Follow the respirator requirement and instructions on the catalyst. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. **If in EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. **If SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

UH70 ULTRASYSTEM® Low VOC Hardener (Air Dry/Short Bake)

Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a well ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear respiratory protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a **POISON CENTER** or physician. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. **VAPOR AND SPRAY MIST HARMFUL.** Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/ PARTICULATE RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 79.8% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 79.8% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 19.9% Emergency telephone number US / Canada: (216) 566-2917 Mexico: (52) 55-4160-8800 / (52) 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.

UH80 ULTRASYSTEM® Low VOC Air Dry Hardener

Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor. Wash hands thoroughly after handling. Use only outdoors or in a well ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye or face protection. Wear respiratory protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF**



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INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a **POISON CENTER** or physician. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. **VAPOR AND SPRAY MIST HARMFUL.** Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/ PARTICULATE RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 79.8% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 79.8% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 20% Emergency telephone number US / Canada: (216) 566-2917 Mexico: (52) 55-4160-8800 / (52) 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.

US4 ULTRA-SOLV® Reducer, #4

Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 48% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 67.2% Emergency telephone number US / Canada: (216) 566-2917 Mexico: (52) 55-4160-8800 / (52) 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.

US5 ULTRA-SOLV® Reducer, #5

Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 49.7% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 35.3% Emergency telephone number US / Canada: (216) 566-2917 Mexico: (52) 55-4160-8800 / (52) 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.

US6 ULTRA-SOLV® Reducer, #6

Flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. Wear protective clothing. **Response: IF SWALLOWED:** Call a **POISON CENTER** or physician if you feel unwell. Rinse mouth. **IF ON SKIN:** Wash with plenty of soap and water. Call a **POISON CENTER** or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel



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unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well ventilated

place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 51.5% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 3% Emergency telephone number US / Canada: (216) 566-2917 Mexico: (52) 55-4160-8800 / (52) 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.

V3K780 Fisheye Eliminator

Danger Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye or face protection. **Response: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. **IF ON SKIN** (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a **POISON CENTER** or physician if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. **Storage:** Keep cool. Store in a well-ventilated place. Store locked up. **Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FOR PROFESSIONAL USE ONLY.** Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 13.8% Emergency telephone number (216) 566-2917



Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

PRODUCT DESCRIPTION:

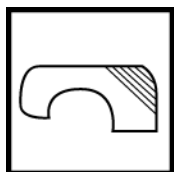
The Appearance Plus Performance Clearcoat CC950 is a premium quality, high solids, urethane clearcoat designed to deliver the maximum in appearance and productivity, and provides outstanding gloss hold out. With the unique Ure-Flex® technology that is incorporated into this product, there is no need for a flex additive for flexible surfaces. CC950 has been specifically formulated for baking and down draft environments involving multi-panel / overall repairs.

SURFACE PREPARATION:

CC950 Appearance Plus Performance Clearcoat is designed for use over: ULTRA 7000® basecoat color, AWX Performance Plus™ basecoat color, Genesis® G4 basecoat color, ULTRA 9K™ and ULTRA BC8™ and properly prepared OE clearcoat in the case of blending*.

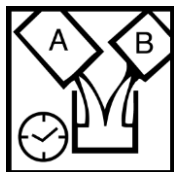
- Allow ULTRA 7000® basecoat color to flash 10-20 minutes before applying clearcoat
- Allow AWX Performance Plus™ basecoat to fully dehydrate before applying clearcoat
- Allow Genesis® G4 basecoat to flash 10-20 minutes before applying clearcoat
- Allow Ultra 9K™ basecoat to flash to thumb twist before applying clearcoat
- Allow Ultra BC8™ basecoat to flash 10-20 minutes before applying clearcoat

***See the appropriate [Ultra 7000®](#), [ULTRA 9K™](#), [ULTRA BC8™](#) or [AWX Performance Plus™](#) Best Demonstrated Practices for instructions on how to properly prepare panels for blending, for further call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**



SUITABLE SUBSTRATES

- OEM topcoats
- Aged Refinishes
- AWX Performance Plus™ Basecoat
- Ultra 7000® Basecoat
- Genesis® G4 Basecoat
- ULTRA 9K™
- ULTRA BC8™

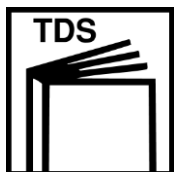


MIXING:



Optional Mix Ratios		
CC950	UH904	US1 – US6
3	1	15%
3	1	20%
3	1	1

Note: Consult your Sherwin-Williams Automotive Finishes Technical Representative to determine what mix ratio is best suited for your spray environment and productivity requirements.



NOTES

- Do not add accelerator to this clearcoat
- If fisheyes are a problem, add ½ ounce of V3K780 Fisheye eliminator per sprayable quart of clearcoat. Do not use fisheye eliminator in basecoat color
- Pot life: 1 hour at 70° F
- Clearcoat is specifically designed for baking and downdraft environments involving multi-panel/overall repairs

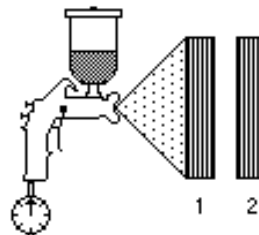


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APPLICATION

- Apply 2 wet on wet coats using a limited flash application method
- 9-10 psi HVLP/ 35-45 psi Conventional



Application Techniques:

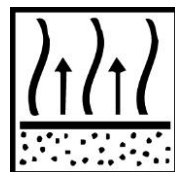
WET-ON-WET/LIMITED FLASH APPLICATION – Please consult your technical representative for training on the Wet-on-Wet, single application (limited flash) technique. This technique is preferred and enhances shop productivity once the technician has been trained. Desired film build is 2.0 – 2.5 mils (dry).

FOR SINGLE OR TWO-PANEL REPAIR: Apply an even, medium to light, first coat to entire surface with gun distance of 4 to 6 inches. Allow to flash for 2 to 5 minutes before applying second coat.

FOR MULTI-PANEL REPAIR (3 OR MORE PANELS): Follow first coat immediately with second coat. First coat should be even without missed areas but not heavy and wet. Flash time between coats is not necessary. Check for proper atomization. NOTE: For extra flow and leveling, use next higher ULTRA-SOLV® reducer (i.e. if you are using US4, substitute US5), or blend ULTRA-SOLV® reducers that best fit the application conditions.

OPTIONAL APPLICATION - Apply only 2 wet coats at a gun distance of 5 – 7 inches. Apply the second coat of clear after the first coat has become hand slick but before 45 minutes to prevent a possible recoat lift. Desired film build is 2.0 – 2.5 mils (dry).

TO BLEND CLEARCOAT EDGE, use BS10 Ure-Blend® Blending Solvent in second gun at low-pressure 20 – 25 psi conventional and 5 psi HVLP cap pressure or the BS11 Ure-Blend® aerosol solvent. Apply only enough blending solvent necessary to melt blend edge. DO NOT add BS10 to CC950 clearcoat prior to using BS10 as a blending solvent.



DRYING SCHEDULE

Air dry	Out of Dust	45-55 minutes
	To Deliver	8 hours
Force Dry	20-30 minutes at 140° F surface temperature	
Buffing Times	Air Dry	4-6 hours
	Force Dry	30 minutes after cool down

REGULATORY DATA*

	As Packaged		As Applied	
	G/L	Lbs/Gal	G/L	Lbs/Gal
VOC Total	373	3.11	384	3.20
VOC Less Exempt	426	3.55	420	3.50
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	0.00	0.00	0.00	0.00
	Wt.%	Vol.%	Wt.%	Vol.%
Volatiles	50.3	56.0	47.1	53.4
Water	NA	NA	NA	NA
Exempt Compounds	13.3	12.5	9.1	8.6
	G/L	Lbs/Gal	G/L	Lbs/Gal
Density	1008	8.41	1010	8.43

* As applied information based off a 3:1:10% mix with UH904 and US3.

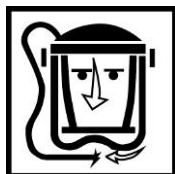


SHERWIN-WILLIAMS®
Automotive Finishes

CC950

Appearance Plus Performance Clearcoat With Ure-Flex® Technology

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

Label Caution Information

APPEARANCE PLUS PERFORMANCE CLEARCOAT CC950

DANGER! FLAMMABLE! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. CAUTIONS SEE CONTENTS STATEMENT ELSEWHERE ON LABEL. Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. **VAPOR HARMFUL.** Use only with adequate ventilation. This product must be used with an appropriate catalyst. Follow the respirator requirement and instructions on the catalyst. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** If **INHALED:** If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.**

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

SPEED-PLUS PERFORMANCE HARDENER UH904

DANGER! COMBUSTIBLE! VAPOR AND SPRAY MIST HARMFUL, OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION, EFFECTS MAY BE PERMANENT. CAUSES EYE IRRITATION. **HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA.** Before using, carefully read **CAUTIONS** on back panel. Contents are **COMBUSTIBLE**. Keep away from heat and open flame. **VAPOR AND SPRAY MIST HARMFUL.** Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONGTERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. **IRRITATES SKIN AND EYES.** Avoid contact with eyes and skin. In case of eye contact, flush immediately with plenty of water for 15 minutes and call a doctor - If not available get emergency medical treatment. In case of skin contact, wash thoroughly with soap and water. Clothes contaminated by a spill should be removed and laundered. Keep container closed when not in use. Reacts with water in closed container to produce pressure which may cause container to burst. Do not transfer contents to other containers for storage. **FIRST AID:** If **INHALED:** If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.



SHERWIN-WILLIAMS®
Automotive Finishes

CC950

Appearance Plus Performance Clearcoat With Ure-Flex® Technology

Questions? Ask us at 1-800-798-5872 or log onto www.sherwin-automotive.com

Label Caution Information

ULTRA-SOLV® Reducers, #1 - 5

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

US-6 ULTRA-SOLV® Reducer, #6

Contents are COMBUSTIBLE. Keep away from heat and open flame. VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Contains Ethylene Glycol Monobutyl Ether Acetate which may cause blood damage. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET



Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com

PRODUCT DESCRIPTION:

Matte Clearcoat 1100727 is a pre-flexed, elastomeric, versatile urethane clearcoat that provides the ability to achieve various gloss finishes for today's low gloss refinishing requirements. Matte Clearcoat 1100727 is packaged as a matte clearcoat. This gloss level can be adjusted to achieve eggshell, satin, and semi-gloss by adding it to the specific Sherwin-Williams Automotive Finishes Premium Clearcoats identified in this Product Data Sheet.

SURFACE PREPARATION*

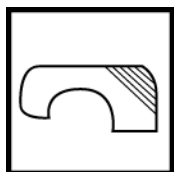
Matte Clearcoat 1100727 is designed for use over Ultra 9K™ Ultra 7000®, AWX Performance Plus™, Genesis® G4, and Ultra BC8™ basecoat color as well as properly prepared OE clearcoat.

- Allow Ultra 9K™ basecoat to fully dehydrate before applying clearcoat
- Allow Ultra 7000® basecoat to flash 10-20 minutes before applying clearcoat
- Allow AWX Performance Plus™ basecoat to fully dehydrate before applying clearcoat
- Allow Genesis® G4 basecoat to flash 10-20 minutes before applying clearcoat
- Allow Ultra BC8™ basecoat to flash 10-20 minutes before applying clearcoat

***See the appropriate [Ultra 9K™](#), [Ultra 7000®](#), [Ultra BC8™](#) or [AWX Performance Plus™](#) refinish systems Best Demonstrated Practices for instructions on how to properly prepare panels, for further information please call your Sherwin-Williams Automotive Finishes Technical Representative, Sales Representative, or Customer Service Representative.**

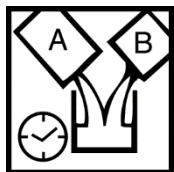
Note for Repairs: The use of blending solvents with a flattened clearcoat can change the gloss level of the blend area. For best results, when repairing flattened clearcoats, it is recommended that the entire panel is clearcoated.

If blending a basecoat for a repair of a low gloss finish, it is recommended that you first apply the Ultra 9K™, Ultra 7000®, AWX Performance Plus™, Genesis® G4, Ultra BC8™ basecoat as required in the repair process, per the appropriate Product Data Sheet. The basecoat must first be top coated with an approved high gloss clearcoat, which is necessary to isolate the basecoat repair and eliminate any discoloration or halo effect over the basecoat color area -THIS IS CRITICAL. After observing the recommended dry time of the Clearcoat, sand with P800-P1000 grit sandpaper before applying the matte clear to the entire panel.



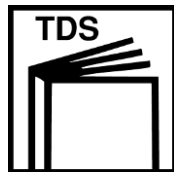
SUITABLE SUBSTRATES

- ULTRA 7000® Basecoat Colors
- AWX Performance Plus™ Basecoat Colors
- Ultra 9K™ Basecoat Colors
- Genesis® G4 Basecoat Colors
- Ultra BC8™
- OEM Topcoats
- Aged Refinishes



MIXING

- Shake / stir product thoroughly, prior to each use.
- Please see page 4 for 1100727 Mixing Instructions.



NOTES

- Pot Life: 1 hour at 70°F
- Matte clear **CAN NOT BE BUFFED** as it will cause clear to gloss.
- In order to keep the matte appearance, the use of any abrasives, polishes or waxes **must** be avoided.
- For cleaning purposes, wash with mild soap and warm water

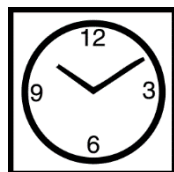


APPLICATION

- Refer to the [spray gun set up chart](#) for proper equipment and settings.
- Apply 2 coats – Gun distance of 4 – 6 inches.
- Apply an even wet first coat, without missed areas.
- Allow to flash for 2 – 5 minutes before applying second coat.
- Recommended film build is 2.0 – 2.5 mils (dry).
- A wet-on-wet application procedure is preferred, as well as painting one panel at a time with a cross coat technique. If larger areas are being painted, three medium wet-on-wet coats rather than two full wet-on-wet coats will help eliminate blotchiness.

NOTE:

- It is recommended that Matte Clearcoat 1100727 be used for **complete panel refinishing only**.
- Wetter coats increase gloss, and drier coats decrease gloss
- Air drying will typically result in lower gloss levels
- Force drying will typically result in higher gloss levels
- Allow basecoat to completely dry before clearcoat application
- To remove any dirt/dust inclusions in the final finish, allow the repair to fully dry. Remove dirt from the affected area and final sand the entire panel with P800-P1000 grit sandpaper. Thoroughly clean and tack the surface. Apply an additional cross coat of Matte Clearcoat 1100727.
- Polishing will lead to a higher, uneven gloss appearance and **IS NOT RECOMMENDED**



DRYING SCHEDULE:

Dry times are based on the recommended dry film thickness of 1.0-1.5 mils for basecoat color and 2.0-2.5 mils for clearcoat, thicker films will extend drying times.

Air Dry Times:

Dust Free	1 Hour
To Deliver	8 hours

Force Dry Times**:

30 minutes @ 140°F surface temperature

**** For best appearance, observe a 30-45 minute flash/purge before baking. This will aid in obtaining a more uniform matte appearance.**

NOTE: Booth ramp up time needed to reach this desired surface temperature should be factored into the total bake cycle time. Bake times are based on surface temperature of 140°F. The time needed to reach this surface temperature is booth dependent. Additional time should be allowed for surface to reach the desired temperature. Use a surface temperature gauge to ensure proper surface temperature is being obtained.



1100727 MIXING INSTRUCTIONS

Step 1: Choose desired gloss level (Flat / Eggshell / Satin / Semi-Gloss) and the Clearcoat that you would like to decrease the level of gloss (CC200 or CC250).

NOTE: If the Matte gloss level is desired, you will not mix 1100727 with any other clearcoat. Proceed directly to Step 3.

Step 2: Create your Clearcoat Combination, by mixing 1100727 with your chosen clearcoat from Step 1. Refer to the Sprayable Mixing Ratio Charts below.

Step 3: Take your Matte Clearcoat and make it ready to spray. Refer to the Sprayable Mixing Ratio Charts below.

Select Gloss Using CC200
SEMI-GLOSS
SATIN
EGGSHELL

First Mix	
1100727	CC200
1	1
2	1
3	1

Then Mix		
1100727 / CC200	UH80	US1-US6
5	1	1
5	1	1
5	1	1

Select Gloss Using CC250
SEMI-GLOSS
SATIN
EGGSHELL

First Mix	
1100727	CC250
1	1
2	1
4	1

Then Mix		
1100727 / CC250	UH80	US1-US6
5	1	1
5	1	1
5	1	1

Matte	1100727	UH80	US1-US6
	5	1	1



Questions? Ask us at 1-800-798-5872 or log onto www.Sherwin-Automotive.com



PERSONAL PROTECTION

- Read label, directions, and MSDS before use
- Refer to MSDS for specific information
- Wear a NIOSH approved organic vapor respirator when using this product
- Wear a NIOSH approved dust particulate mask when sanding, mixing or applying this product
- Keep product, paint and overspray off of the skin, wear goggles, coveralls, and chemical protective gloves when using this product

REGULATORY DATA*

Matte Clearcoat 1100727 With Ure-Flex® Technology				
5-PARTS 1100727	1-PART UH80		1-PART US4	
Volatile Organic Compounds (follows U.S. EPA VOC Data Sheet)				
Regulatory Data	As Packaged		As Applied	
	lb/gal	g/l	lb/gal	g/l
Density	10.66	1276	9.95	1192
	% by weight	% by volume	% by weight	% by volume
Total Volatiles	51.6	50.4	52.5	53.8
Water	0.0	0.0	0.0	0.0
Exempt Compounds	48.8	46.6	37.3	33.3
Organic Volatiles	2.8	3.8	15.2	20.5
Percent Non-Volatile	48.4	49.6	47.5	46.2
	lb/gal	g/l	lb/gal	g/l
VOC Total	0.29	35	1.51	181
VOC Less Exempt	0.56	67	2.3	272
Hazardous Air Pollutants (Clean Air Act, Section 112(b))				
	lb/gal	kg/l	lb/gal	kg/l
Volatile HAPS	0.01	0.001	0.15	0.018
VHAPS of Solids	0.03	0.003	0.32	0.039

LABEL CAUTION INFORMATION

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at <http://www.sherwin-automotive.com>. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917

AIR PRESSURE SETTINGS

These are recommended starting points using the spray guns listed. Due to inconsistencies that exist between various brands of Air Pressure Regulators, these recommended pressures may need to be adjusted based on the specific equipment you are using. It is important to select spray guns according to your spray environment.

MANUFACTURER	MODEL	PSI AT THE GUN COVERAGE COATS	FLUID TURNS OUT	TIP SIZE
SATA	5000 B HVLP	20 - 24	FULL OPEN	1.3 1.4
SATA	5000 B RP	20 - 24	FULL OPEN	1.3 1.4
SATA	5500 HVLP	20 - 24	FULL OPEN	1.3 1.4
SATA	5500 RP	20 - 24	FULL OPEN	1.3 1.4
DEVILBISS	DV1	14 - 16	FULL OPEN	1.3 1.4
DEVILBISS	TEKNA PROLITE TE10 / TE20 AIR CAP	18 - 20	FULL OPEN	1.3 1.4
DEVILBISS	TEKNA 7E7 AIR CAP	18 - 20	FULL OPEN	1.3 1.4
ANEST IWATA	LS400 ENTECH HVLP	20 - 24	FULL OPEN	1.3 1.4
ANEST IWATA	WS400 EVO TECH	20 - 24	FULL OPEN	1.3 1.4
3M*	PERFORMANCE SPRAY GUN	18 - 20	FULL OPEN	1.3 1.4

*Must be used with the fan control set at 2.5 turns closed

NOTE:

- A dirty or worn nozzle set/air cap will not produce the results of a clean, properly maintained one.
- For questions regarding the correct spray equipment for your environment, please contact your local Sherwin-Williams® Automotive Technical Representative for assistance.

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PREMIUM CLEARCOATS SPRAY GUN SETTINGS

CC200, CC250, CC950, 1100755

AIR PRESSURE SETTINGS

These are recommended starting points using the spray guns listed. Due to inconsistencies that exist between various brands of Air Pressure Regulators, these recommended pressures may need to be adjusted based on the specific equipment you are using. It is important to select spray guns according to your spray environment.

MANUFACTURER	MODEL	PSI AT THE GUN COVERAGE COATS	FLUID TURNS OUT	TIP SIZE
SATA	5000 B HVLP	24 - 28	2.5 - FULL OPEN	1.3 1.4
SATA	5000 B RP	24 - 28	2.5 - FULL OPEN	1.3 1.4
SATA	5500 HVLP	24 - 28	2.5 - FULL OPEN	1.3 1.4
SATA	5500 RP	24 - 28	2.5 - FULL OPEN	1.3 1.4
DEVILBISS	DV1	18 - 20	2.5 - FULL OPEN	1.3 1.4
DEVILBISS	TEKNA PROLITE TE10 / TE20 AIR CAP	24 - 26	2.5 - FULL OPEN	1.3 1.4
DEVILBISS	TEKNA 7E7 AIR CAP	20 - 22	2.5 - FULL OPEN	1.3 1.4
ANEST IWATA	LS400 ENTECH HVLP	20 - 24	2.5 - FULL OPEN	1.3 1.4
ANEST IWATA	WS400 EVO TECH	26 - 28	2.5 - FULL OPEN	1.3 1.4
3M*	PERFORMANCE SPRAY GUN	18 - 20	FULL OPEN	1.3 1.4

*Must be used with the fan control set at 2.5 turns closed

NOTE:

- A dirty or worn nozzle set/air cap will not produce the results of a clean, properly maintained one.
- For questions regarding the correct spray equipment for your environment, please contact your local Sherwin-Williams® Automotive Technical Representative for assistance.

S4-32



ULTRA
9KTM

Ancillaries



SHERWIN-WILLIAMS.
Automotive Finishes

Ure-Blend™
1K Urethane Blending Solvent
BS10

PRODUCT DESCRIPTION:

Ure-Blend™ 1K Urethane Blending Solvent BS10 is a ready-to-spray blending agent used to melt the edge of select Sherwin-Williams® 2K urethane topcoats. BS10 is specifically designed as an edge blending solvent for invisible blend repairs where full panel refinishing is not desirable. Please refer to our Best Demonstrated Practices, or the chosen 2K topcoat PDS for proper surface preparation of the substrate.

TECHNICAL DATA: REGULATORY DATA DOES NOT APPLY TO BS10 AEROSOL

- VOC as packaged 6.9 lbs./gal
- Flash Point 40°F TOC
- Viscosity #2 Zahn 12.9 sec.

COMPATABLE TOPCOAT SYSTEMS

GENESIS®

GENESIS® 2K Urethane Single-Stage
GENESIS® 2K Urethane Clearcoats

ULTRA 7000®

ULTRA 7000® 2K Urethane Clearcoats
ULTRA ONE HPU™ Urethane Single Stage

MIXING:

1. Stir or shake Ure-Blend™ BS10 thoroughly before using.
2. Ure-Blend™ BS10 is packaged ready to spray.

APPLICATION:

***If using the BS10 aerosol, please refer to Application comment #3 below.

1. Application of Ure-Blend™ BS10 must be performed using a two-gun method. The first gun will contain either a **Sherwin-Williams® Single Stage or Clearcoat system**, and the second gun will contain the Ure-Blend™ BS10 1K Urethane Blending Solvent used to melt the wet edge of the blend.
2. Using the two gun method, adjust air pressure of the second gun containing the Ure-Blend™ BS10 to 20-25 psi for conventional gravity or siphon feed, and 5 psi at the cap for HVLP.
3. Spray 1-2 even wet-on-wet coats to melt in the outer edge of the Single Stage color or Clearcoat at a gun distance of 5"-7". Recommended dry film thickness is 0.2-0.5 mil. Allow Ure-Blend™ BS10 to dry overnight. If force drying/baking, allow panel(s) to cool down before polishing blended area.

NOTES

Single Stage Applications

If Ure-Blend™ BS10 is used with a **Sherwin-Williams® Urethane Single Stage system** apply the Single Stage paint over the repaired area carrying out the wet edge just beyond the repair, and then allow the Single Stage paint to flash per recommendation. Apply a second coat to achieve proper hiding and blending of the color into the repaired area and lightly feather the outer edge. Immediately after feathering the final coat, melt the feathered edge with a wet-on-wet application using Ure-Blend™ BS10 1K Urethane Blending Solvent.

Basecoat - Clearcoat Applications

If Ure-Blend™ BS10 is used with a **Sherwin-Williams® 2K Urethane Clearcoat**, apply one coat of clear just beyond the edge of the repaired area, allowing the Clearcoat to flash per recommendation. Apply a second coat of clear carrying out the wet edge just beyond the first pass of clear and lightly feather the outer edge. Immediately after feathering the final pass of clear, melt the feathered edge with a wet-on-wet application using Ure-Blend™ BS10 1K Urethane Blending Solvent.

DRYING SCHEDULE:

At 0.2-0.5 mil @ 70°F.

- | | |
|-------------|-----------------------------|
| Dust free | 1-3 minutes |
| Dry to buff | Over night dry – Air Dry |
| | After cool down – Force Dry |

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PRODUCT AT-A-GLANCE

PRODUCT **Ure-Blend™ 1K Urethane Blending Solvent** **BS10**

USE

- A fast dry, ready-to-spray Sherwin-Williams® Single Stage color & Clearcoat blender.
- Improves blending of Sherwin-Williams® Single Stage colors & Clearcoats.

SUITABLE SUBSTRATES

- OEM/Refinish Enamels

MIXING

- Stir or shake Ure-Blend™ BS10 thoroughly before using.
- Ure-Blend™ BS10 is packaged ready to spray.

APPLICATION:

***If using the BS10 aerosol, please refer to Application comment #3 below.

1. Application of the Ure-Blend™ BS10 must be performed using a two-gun method. The first gun will contain either a **Sherwin-Williams® Single Stage system**, or a **Sherwin-Williams® Clearcoat system**, and the second gun will contain the Ure-Blend™ BS10 1K Urethane Blending Solvent used to melt the wet edge of the blend.
2. Using the two gun method, adjust air pressure of the second gun containing the Ure-Blend™ BS10 to 20-25 psi for conventional gravity or siphon feed, and 5 psi at the cap for HVLP.
3. Spray 1-2 even wet-on-wet coats to melt in the outer edge of the Sherwin-Williams® Single Stage color or Clearcoat at a gun distance of 5"-7". Recommended dry film thickness is 0.2-0.5 mil. Allow Ure-Blend™ BS10 to dry overnight or after cool down from force dry, then lightly buff repair area, if required.

PERSONAL PROTECTION

- Read all label directions before use.
- Refer to MSDS for specific information.
- Wear a NIOSH approved air purifying respirator when mixing and applying.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety glasses, coveralls, and latex gloves when using product.

To learn more about Sherwin-Williams Automotive Products, visit our Web site at www.sherwin-automotive.com



USP90 Liquid Scuffing Agent

Product Description

Liquid Scuffing Agent USP90 is a water based product that contains a powerful natural cleanser/degreaser. It is designed to increase the effectiveness of a nylon scuffpad when preparing a panel for refinishing. It contains super fine micro-crystals which add to the cutting power of an abrasive pad.



Mixing

Ready for use as packaged



Application

Dampen abrasive pad with water. Apply Liquid Scuffing Agent USP90 to pad or directly to the panel. Thoroughly clean and abrade the entire surface to be refinished. Rinse surface clean with water. Dry work area with a clean cloth and compressed air and continue paint process.



Notes

In areas where you cannot use an abrasive pad (around mouldings, door locks, etc.) use Liquid Scuffing Agent with a stiff brush and abrade paint.

These pages are for a quick reference only. Refer to specific Technical Data Sheets for complete product and application recommendations. See Material Safety Data Sheets and labels for complete safety information.



ULTRA
9KTM

**Best Demonstrated
Practices**

AREA: PAINT PREP

STEP 1:

- Solvent test E-Coat. If insoluble proceed to Step 2. If E-Coat is soluble, remove E-Coat and follow “Repaired Metal Part Refinishing” procedure.

STEP 2:

- Thoroughly clean part with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

STEP 3:

- Remove Factory E-Coat imperfections using a DA with P600 grit sandpaper on an interface pad, minimizing any breakthrough of E-Coat to metal substrate.

NOTE: If P30/P27 Sealer was applied to the exterior of the new part in the “Jamming Parts Refinishing” procedure, sand the P30/P27 Sealer with P600 grit before topcoating.

STEP 4:

- Re-clean the new part with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

STEP 5:

- Small cut-throughs in the factory coating may be treated with P30 or P27 Primer Sealer. Large areas must be treated with PE995 or E2G970 Corrosion Shield® Primer.

AREA: SPRAY BOOTH

STEP 6:

- Apply 1 smooth and uniform coat of P30 or P27 Primer Sealer. Allow to flash handslick before topcoating.

NOTE: If the exterior of the new part has been prepared using the “NOTE” under Step 3, no additional P30/P27 Sealer is required and can be directly topcoated.

STEP 7:

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

S6-1

STEP 8:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 9:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

See Safety Data Sheet and Labels for additional safety information and handling instructions. Safety Data Sheets for the products contained on this Product Data Sheet can be located at www.sherwin-automotive.com. Products shall not be repackaged, modified, blended, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For additional product information, please contact (216) 566-2917.

S6-2

AREA: BODY REPAIR

STEP 1:

- All bodywork must be finished with P180 grit sandpaper or finer.

STEP 2:

- Featheredge the repair area with P220 grit DA sandpaper, followed by P320 grit DA sandpaper. Extend the sanded area around the repair with P400 sandpaper to accommodate the primer application. Note: Thoroughly clean off then use FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

AREA: PAINT PREP

STEP 3:

- Treat all large areas of bare metal (5" X 5" or larger) with PE995 or E2G970 Corrosion Shield Primer.

STEP 4:

- Apply 2–3 coats of P27 or P30 Primer Surfacer making sure that primer is not applied beyond P400 sand scratches. If using P27, allow a 1-5-minute flash between coats.

STEP 5:

- Allow to either air dry or force dry with short wave infra-red heat - as per Product Data Sheet. After primer has cured, apply a dry guide coat before block sanding sheet.

STEP 6:

- Block-sand with P400 grit sandpaper and re-apply dry guide to repair area - Do not wet sand.

STEP 7:

- Finish sand repair area with P600 grit sandpaper - Do not wet sand. If using a DA to finish sand, an interface pad may be used.

S6-3

AREA: SPRAY BOOTH

STEP 8:

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

STEP 9:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 10:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-4

OEM E-COATED PARTS

AREA: PAINT PREP

STEP 1:

- Thoroughly clean part with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

AREA: SPRAY BOOTH

STEP 2:

- Apply 1 smooth and uniform coat of P30 SpectraSeal® Primer Sealer or P27 2.1 VOC Sealer to the edge/cut-in and exterior of panel. Apply a second coat of P30/P27 sealer to the exterior of the panel. Allow P30/P27 to flash at least 5 min. before topcoating.

STEP 3:

- Apply Ultra 9K™ Basecoat Color to edge/cut-in areas.
- For low gloss underhood non exterior areas, use Ultra 9K Underhood additive U9A1 per Color Access. Do not apply clear over Ultra 9K containing U9A1 Underhood additive.

STEP 4:

- For low VOC areas apply HPC21 HP Process™ 2.1 Clearcoat. See clearcoat Product Data Sheet. For National Rule Areas HPC15 HP Process™ Clearcoat can be used over Ultra 9K™ Basecoat Color.

PAINTED JAMBS

AREA: PAINT PREP

STEP 1:

- Scuff sand the jamb area using a gray nylon scuff pad along with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

STEP 2:

- Re-clean jamb with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

S6-5

STEP 3:

- Re-clean jamb with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

AREA: SPRAY BOOTH**STEP 4:**

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

STEP 5:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 6:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-6

AREA: BODY REPAIR

STEP 1:

- Solvent test OE coating by the repair area. If insoluble, proceed to Step 2. If soluble, either remove coating or prepare to prime the complete panel.

STEP 2:

- All bodywork must be finished with P180 grit sandpaper or finer.

STEP 3:

- Featheredge the repair area with P220 grit DA sandpaper, followed by P320 grit DA sandpaper. Extend the sanded area around the repair with P400 sandpaper to accommodate the primer application.

STEP 4:

- Thoroughly clean off, then use FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

NOTE: Assign DA(s) with an interface pad and sanding discs to be used specifically on aluminum. Do not allow equipment and sanding materials used on other metal substrates to intermix with aluminum repairs!

AREA: PAINT PREP

STEP 5:

- Apply 2–3 coats of NP75 Primer Surfacer making sure that primer is not applied beyond P400 sand scratches.

STEP 6:

- Allow to either air dry or force dry with short wave infra-red heat - as per Product Data Sheet. After primer has cured, apply a dry guide coat before block sanding.

STEP 7:

- Block-sand with P400 grit sandpaper and re-apply dry guide to repair area.

S6-7

STEP 8:

- Finish sand repair area with P600 grit sandpaper. If using a DA to finish sand, an interface pad may be used.

AREA: SPRAY BOOTH**STEP 9:**

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

STEP 10:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 11:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-8

AREA: BODY REPAIR

STEP 1:

- Solvent test OE coating by the repair area. If insoluble, proceed to Step 2. If soluble, either remove coating or prepare to prime the complete panel.

STEP 2:

- All bodywork must be finished with P180 grit sandpaper or finer.

STEP 3:

- Featheredge the repair area with P220 grit DA sandpaper, followed by P320 grit DA sandpaper. Extend the sanded area around the repair with P400 sandpaper to accommodate the primer application.

STEP 4:

- Thoroughly clean off, then use FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

NOTE: Assign DA(s) with an interface pad and sanding discs to be used specifically on aluminum. Do not allow equipment and sanding materials used on other metal substrates to intermix with aluminum repairs!

AREA: PAINT PREP

STEP 5:

- Apply 2–3 coats of PE995 Corrosion Shield™ LCF Etching Primer (National Rule or Low VOC options) making sure that primer is not applied beyond P400 sand scratches.

STEP 6:

- Allow PE995 to dry at least 15 minutes before applying a Primer Surfacer.

NOTE: A Primer Surfacer must be applied before topcoating with color or sealer.

STEP 7:

- Apply 2–3 coats of P27 or P30 Primer Surfacer or Sealer making sure that primer/sealer is not applied beyond P400 sand scratches. If using P27, allow a 1-5-minute flash between coats. If using P30, no flash necessary — not to exceed 2 minutes.

S6-9

STEP 8:

- Block-sand with P400 grit sandpaper and re-apply dry guide to repair area.

STEP 9:

- Finish sand repair area with P600 grit sandpaper. If using a DA to finish sand, an interface pad may be used.

AREA: SPRAY BOOTH**STEP 10:**

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

STEP 11:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 12:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

S6-10

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AREA: PAINT PREP

STEP 1:

- Scuff surface with a gray scuff pad along with an appropriate Sherwin-Williams® surface cleaner and wipe dry with a clean cloth, paying close attention to small grooves and depressions.

STEP 2:

- All bodywork must be finished with P180 grit DA sandpaper, including inside of the hail dimples.

STEP 3:

- Apply your body filler or small dent repair material to hail damage dimples. Block-sand the repair area with P180 grit sandpaper, until surface is flat. If hail dimples are extremely small, proceed to Step 4.

STEP 4:

- Thoroughly clean off with an appropriate Sherwin-Williams surface cleaner and wipe dry with a clean cloth. Surface must be properly sanded and cleaned prior to primer application for optimum performance.

STEP 5:

- Apply 2-3 medium coats of HDR22 with a 1.8 – 2.0 fluid tip primer gun, allowing 5-10 minutes to flash in between coats. This will provide 6.0 – 9.0 mils of material to sand.

NOTE: Do not leave product in the spray gun for longer than 30 minutes. Refer to Product Data Sheet AS3364 for cleaning instructions.

STEP 6:

- After HDR22 has cured, apply a guidecoat then block-sand with P180 grit sandpaper followed by P400 grit DA sandpaper.

NOTE: The panel must be competently sanded with P400 grit DA before sealing to ensure that sand scratches do not travel through to the final finish.

AREA: SPRAY BOOTH

STEP 7:

- Apply 1 smooth and uniform coat of P30 SpectraSeal® or P27 SpectraSeal® Color Primer Sealer. Allow to flash handslick before topcoating.

S6-11

STEP 8:

- Copy Apply basecoat until coverage is achieved. Refer to Product Data Sheet AS9801 for Ultra 9K™.

STEP 9:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-12

AREA: PAINT PREP

STEP 1:

- Perform a substrate test. Using P600, dry sand a small area on the inside of the plastic part. If the part powders, it must be sanded and cleaned with 4600800 Premium Waterborne Spray Gun and Surface Cleaner before proceeding to Step 2. If substrate gums up during sanding, clean with 4600800 Premium Waterborne Spray Gun and Surface Cleaner before proceeding directly to Step 2.

STEP 2:

- Scuff all surfaces (back and front) with gold scuff pad along with USP90 Liquid Scuffing Agent, paying close attention to small grooves and depressions.

STEP 3:

- Thoroughly rinse off the scuffing agent with clean water and completely dry the surface.

STEP 4:

- Thoroughly clean the plastic substrate with FA1XPC Aerosol Plastic Anti-Static Cleaner and a gold scuff pad. Dry excess material with a clean cloth and re-apply FA1XPC Aerosol Plastic Anti-Static Cleaner, followed by wiping the part dry with a clean cloth.

AREA: SPRAY BOOTH

STEP 5:

- Apply 1 medium coat of Clear Adhesion Promoter UPO7228 for low VOC or UPO7229 for National Rule to the bare plastic. Allow 10 minutes to flash.

STEP 6:

- Apply 1 smooth and uniform coat of P30 or P27 Primer Sealer. Allow to flash handslick before topcoating.

NOTE: For VOC Restricted areas use P27.

STEP 7:

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

S6-13

STEP 8:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 9:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-14

AREA: PAINT PREP

STEP 1:

- Solvent test factory-primer. If insoluble, please proceed to Step 2. If factory-primer is soluble, remove the primer and follow the “Unprimed Plastic Parts” procedure.

STEP 2:

- Clean part with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

STEP 3:

- Thoroughly scuff with gray nylon scuff pad and USP90 liquid scuffing agent.

STEP 4:

- Thoroughly rinse off with clean water and completely dry the surface.

STEP 5:

- Re-clean the part with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner. Make sure all residue is removed.

AREA: SPRAY BOOTH

STEP 6:

- Apply 1 smooth and uniform coat of P30 SpectraSeal® Primer Sealer or P27 2.1 VOC Sealer to the exterior of panel. Allow Sealer to flash at least 5 minutes before topcoating. (Use P27 in Low VOC areas.)

STEP 7:

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved.

STEP 8:

- Allow the Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

S6-15

STEP 9:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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S6-16

- It is important to practice good inventory management of any waterborne product.
- Make sure that the Ultra 9K™ Basecoat products you are using are within shelf life.
- Ultra 9K™ Basecoat products must be stored/transported at temperatures between 40°F and 90°F.
- Shelf life for Ultra 9K™ Basecoat products:

12 Months	U9126, U9174
18 Months	U9141, U9020
24 Months	U9140, U9154, U9130, U9160, U9170, U9172, U9173, U9175, U9151, U9123, U9030, U9031, U9033, U9034, U9040, U9041, U9011, U9012, U9001, U9002, U9004, U9021, UFX1, UFX2, UFX3, UFX4
36 months	U9131, U9122, U9171, U9125, U9150, U9120, U9121, U9124, U9161, U9042, U9043, U9044, U9003, U9010, U9050, U9051, U9052, U9053, U9060, U9061, U9070, U9080, U9081, U9082, U9083, U9090, U9100, U9101, U9102, U9110, U9111, U9112

STEP 1A: PREPARING NEW TONERS FOR USE

- When replacing a toner, hand agitate packaging for ~ 45 sec.
- Use a new valve each time you replace a toner.

STEP 1B: DAILY TONER MAINTENANCE

- Before use, hand agitate packaging for ~ 10 sec.
- Use the Dispensing Extender to dispense paint.

STEP 2: SELECTING THE BEST FORMULA

- The color selection/verification process, including paint sprayout panels, should be completed while the vehicle is in the “teardown” phase of the repair planning process.
- Before mixing the color use the Color Access formula retrieval system and the GCB – Global Color Box system. A Colorator® color match rating tool can be used if necessary.
- Enter the color code of the vehicle and/or vehicle manufacture information into the Color Access system. On the Select Formula by Paint Code page, formulas are listing in Standard / Variant order. Simply click on the Standard or Variant formula and note the chip number listed in the Color Box section of the screen. Locate the deck and chip in the GCB system and take this deck to the vehicle.
- Polish and clean the area to be evaluated. Place the chip (or chips) out of the GCB deck against the vehicle and access the color match. Select the chip that best matches the vehicle.

NOTE: Assess the color match in full sunlight or by using a color corrected light. View the color at all angles from left to right and from up to down. Pay special attention to sidetones. You cannot blend a color with a bad sidetone!

- Then go back to the Color Access Software and select the formula for the chip that best matches the vehicle.
- If there is no color code for this vehicle, or the vehicle has been refinished with a different color, go directly to the Sherwin- Williams Color Map Books, and select a chip that best represents the vehicle color.

NOTE: Before mixing the color review your sprayout library and custom formulas to determine if a better formula already exists. All sprayout cards need an appropriate 2K clearcoat applied to assure color match to the vehicle. Store the completed panel in a sprayout library cabinet or binder for protection.

STEP 3: MIX COLOR

- Select the amount of material needed for the size of the repair.
- Use the Dispensing Extender to dispense the correct amount of toner shown on screen.

NOTE: If excess air is present in the container, place it on top of the Dispensing Extender with the valve open and press down slightly until air no longer comes out.

S6-18

STEP 4: PREPARE A SPRAYOUT PANEL AND VERIFY COLOR

- During the repair planning process, it is recommended that a sprayout card is prepared with color, appropriate 2K clearcoat, and proper labeling to support all blend decisions. Always use a Sherwin-Williams Colorator® during the color verification process. All sprayout cards are to be labelled with a printed label from the Color Access formula retrieval system and filed in a sprayout library cabinet or binder for future reference.

NOTE: To determine the number of coats required to duplicate the GCB - Global Color Box chip, specific gun settings are required per the Sherwin-Williams spraygun selection charts. The vehicle must be refinished using the same gun settings and technique for consistent color alignment.

- All colors must be viewed under equal gloss. Polish the adjacent panels to those being refinished or blended.
- Always use natural sunlight or “color corrected” lights when comparing the vehicle color to the sprayout.
- Always compare the sprayout from ALL angles – head-on (face) and side tone (flop).
- Use the Colorator® to help determine a good match to the vehicle.
- Using the Colorator® - Place the sprayout in the middle window of the Colorator® and apply to the vehicle. Can you see a difference in color when viewing the sprayout compared to the vehicle at the 5 mm gap?
 - If the answer is YES, then compare the sprayout versus the vehicle at the 25 mm gap. Can you see a difference here?
 - If the answer is NO, then the formula is a blendable match to the vehicle and the repair can be completed.
 - If the answer is YES, then the formula may need to be adjusted, ask yourself: “The car is what compared to the sprayout?”

Examples:

Darker or Lighter

More Green, More Red, More Blue, or More Yellow

More Saturated or Less Saturated

- Three-stage formulas always require a let-down panel to determine how many coats of mid coat are necessary.

NOTE: You cannot blend a color with a bad side tone!

S6-19

STEP 5: ASK YOURSELF - “WHAT IF ANYTHING ADDITIONAL WILL BE REQUIRED TO MEET CUSTOMER/INSURANCE COMPANY QUALITY EXPECTATIONS?”

- Nothing: Refinish following the Sherwin-Williams Best Demonstrated Practices.
- Tinting: Tint following standard color adjustment practices and re-evaluate color match quality.
 - When tinting, ask yourself: “The car is what compared to the paint?”
 - The answer to “what” will tell you which direction to adjust the color.
 - Be sure to use Sherwin-Williams Tinting Guide AS9802 to help you select the correct toner for tinting.
- *Blending*: Properly prepare and blend adjacent panels per Sherwin-Williams BDP blending policy.

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S6-20

AREA: PAINT PREP

STEP 1:

- Clean blend areas with FA1XSC Surface Cleaner. VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

STEP 2:

- Sand blend areas with P800-P1000 grit sandpaper on a random orbital sander. Thoroughly scuff un-sanded areas with gray nylon scuff pad. Blend surface should be uniform and dull.

STEP 3:

- Re-clean with FA1XSC Surface Cleaner or for VOC restricted areas use 4600800 Premium Waterborne Spray Gun and Surface Cleaner.

AREA: SPRAY BOOTH

STEP 4:

- Apply Ultra 9K™ Basecoat Color until desired coverage is achieved. Refer to the AS9801 Ultra 9K™ Basecoat Color Product Data Sheet.

STEP 5:

- Allow Ultra 9K™ Basecoat Color to flash 15–30 minutes or until fully dehydrated before clearcoating (thumbtwist).

STEP 6:

- Apply one of the Sherwin-Williams Automotive Finishes Premium Clearcoats - check local VOC regulations. Follow all mixing and application recommendations on the Product Data Sheets.

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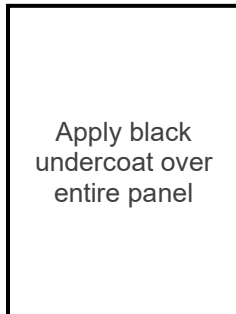
S6-21

COLOR CHECK

STEP 1:

- Determine the correct color early in the repair process (preferably when estimation is completed).
- Preparing a “step down” panel is necessary to determine the number of metallic layers required to achieve the correct color match.
- Please note, the same spray gun should be used for the “step down” panel and the final repair.

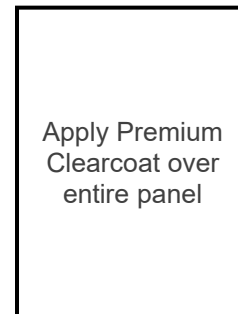
STEP 1



STEP 2

Metallic Layer #4
Metallic Layer #3
Metallic Layer #2
Metallic Layer #1
Undercoat Only

STEP 3



NOTE: If larger panels are preferred to determine the correct number of metallic layers, multiple panels can be prepared instead of one “step down” panel.

SURFACE PREPARATION

STEP 2:

- Clean blend areas with appropriate Sherwin-Williams® surface cleaner.
- Optional: U9020 Basecoat Additive can be used as a blender. See the [Ultra 9K Product Data Sheet](#) for mixing and application instructions.

BLACK UNDERCOAT

STEP 3:

- Copy for this line goes here. A mix ratio of 1: 10-30% is required* (1-part Ultra 9K black undercoat, paint code 1809: 10-30% U9R1 Standard Reducer).
- Apply until full coverage is achieved.

*See Mix Ratio and Spray Gun Setup Recommendations

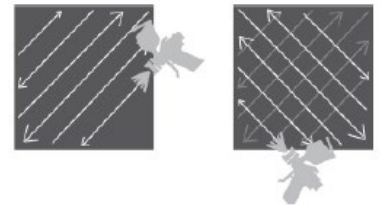
S6-22

METALLIC LAYER

STEP 4:

- A mix ratio of 1: 10-30% is required* (1-part 46G intermix color: 10-30% U9R1 Standard Reducer).
1. Apply two coverage coats, dehydrating between each coat.
 2. Apply a cross layered dropcoat, allowing a flash between the cross layers. This dropcoat application consists of two coats that are dehydrated between coats and applied in opposing directions.
 3. Allow Ultra 9K Basecoat Color to flash 15 – 20 minutes or until fully dehydrated before clearcoating (thumbtwist). A 10-minute bake set at 140°F will help expedite this step.
- *See Mix Ratio and Spray Gun Setup Recommendations

CROSS LAYERED DROPCOAT



CLEARCOAT

STEP 5:

- Use of a Sherwin-Williams Premium Clearcoat is required.
1. Apply a tack coat. Allow a 5-minute flash off before next coat (or 3-minute flash off before next coat if using a speed clear).
 2. Follow all mixing, and application instructions outlined on the appropriate Product Data Sheet.

MIX RATIO AND SPRAY GUN SETUP RECOMMENDATIONS

- For most repairs and conditions, a 20% reduction will achieve the best results. The chart below outlines alternative mixing ratios:

Environment	Temperature / Humidity	Mix Ratio
Cool and Humid	60°F - 68°F / >55%	10%
Moderate	68°F - 95°F / 20 - 80%	20%
Hot/Warm and Dry	85°F+ / <20%	30%

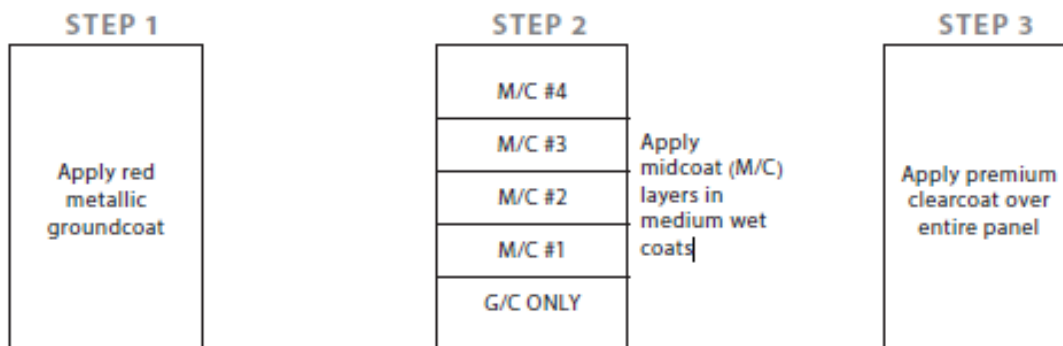
- Refer to the Ultra 9K™ basecoat [Spray Gun Setup Chart](#) for individual spray gun settings.

S6-23

COLOR CHECK

STEP 1:

- Determine the correct color early in the repair process (preferably when estimation is completed).
- Preparing a “step down” panel is necessary to determine the number of midcoat layers required to achieve the correct color match.



NOTE: If larger panels are preferred to determine the correct number of midcoat layers, multiple panels can be prepared instead of one “step down” panel.

SURFACE PREPARATION

STEP 2:

- Clean blend areas with appropriate Sherwin-Williams® surface cleaner.
- Fill light sand scratches with a 1:10% mix of U9020 Base Additive and U9R1 Standard Reducer (1-part U9020: 10% U9R1).

S6-24

RED METALLIC GROUNDCOAT

STEP 3:

- A mix ratio of 1: 10-30% is required* (1-part groundcoat intermix: 10-30% U9R1 Standard Reducer).

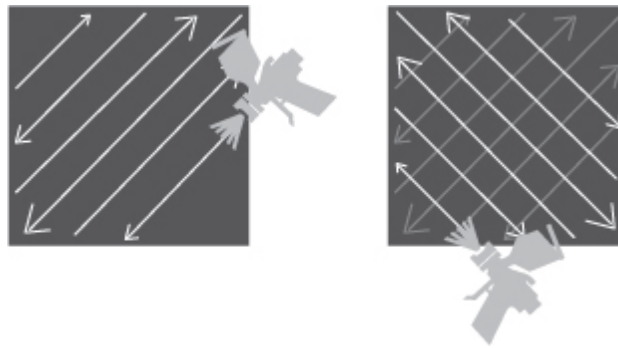
1. Apply a tack coat and let flash.
2. Apply a full wet coat and then a 75% medium wet coat, with no flash-off in between, until uniform.

NOTE: A second full wet coat can be applied if needed

3. In place of a dropcoat, to achieve blending and proper color match, apply a final cross coat** slightly lighter than the previous coat (at the same pressure as the orientation coat). Extend into the blend area if necessary. This coat ensures metallic particles remain properly oriented on the surface.

*See Mix Ratio and Spray Gun Setup Recommendations

** Cross layered application method: apply one full wet coat followed immediately by a 75% medium wet coat applied in the opposing direction (see figures 1 & 2).



TRANSPARENT RED MIDCOAT

STEP 4:

- A mix ratio of 1: 10-30% is required* (1-part Transparent Red Midcoat: 10-30% U9R1 Standard Reducer).
- Apply 2 – 3 coats (depending on the required color) using a cross layered application method.

*See Mix Ratio and Spray Gun Setup Recommendations

S6-25

CLEARCOAT

STEP 5:

- Apply a Sherwin-Williams Premium Clearcoat following all mixing and application instructions outlined on the appropriate Product Data Sheet.

MIX RATIO AND SPRAY GUN SETUP RECOMMENDATIONS

- For most repairs and conditions, a 20% reduction will achieve the best results. The chart below outlines alternative mixing ratios:

ENVIRONMENT	TEMPERATURE / HUMIDITY	MIX RATIO
Cool and Humid	60°F - 68°F / >55%	10%
Moderate	68°F - 95°F / 20 - 80%	20%
Hot/Warm and Dry	85°F+ / <20%	30%

Refer to the Ultra 9K™ basecoat Spray Gun Setup Chart for individual spray gun settings.

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