



SHERWIN-WILLIAMS®
Automotive Finishes

GENESIS® LIMITED EFFECTS™
3.5 VOC Basecoat System
G5 G6 Series

PRODUCT DESCRIPTION

The GENESIS® LE 3.5 VOC Basecoat/Clearcoat system is extremely durable, provides high gloss and is chemical/solvent resistant. Genesis LE Basecoat/Clearcoat is designed to match Single Stage and Basecoat/Clearcoat OEM Metallics. This urethane system is ideal for Fleet, Truck and Special Vehicle finishing

TECHNICAL DATA

Mixing ratio by volume	3:1:1	Basecoat / Clearcoat System Performance *	
Color : Reducer : Hardener		• Flexibility (1/8" conical mandrel)	Excellent
• Max VOC @ 3:1:1	VOC less exempt 3.5 lbs/gal	• Solvent resistance (10 double rubs)	
• Viscosity (sprayable)	Gardner #2 Zahn Cup (ISO calibrated)	(MEK/Xylene/Gasoline/Diesel/Oil)	No effect
	16-20 sec.	• Chemical resistance (24 hr. covered contact)	
• Flash point PMCC (white)	80°F	Sodium Hydroxide	No effect
• Sprayable Volume Solids	51%	Sulfuric Acid	No effect
• Coverage @ 1 mil dry (white)	813 sq. ft./gallon	Gasoline	No effect
• Recommended min. dry film thickness (2 coats) To B/W Hide		Motor Oil	No effect
		Antifreeze	No effect
		• Salt spray resistance -500 hrs (ASTM D2247)	No effect
		• Humidity resistance - 250 hours (ASTM B117)	No effect

* After one week cure using E2A933 primer and GCC700 clearcoat

SUITABLE SUBSTRATES

- PRIME-SHIELD™ Urethane Primers, E2A820/R822/W823
- 3.5 VOC DTM Epoxy Primers, E2B931/W932/A933
- 2.1 VOC DTM Epoxy Primers, PSE2110/2120/2130
- DTM Urethane Primers, E2W817/B818/A819
- Dimension 3.5 VOC 1K Enamel Sealer, DS675/676/677/678/679
- SPECTRAPRIME™ Color Surfacer, P30A
- SPECTRASEAL™ Sealer System P30A
- ULTRA-FILL® HS DTM, NP-75
- ELEMENT-SHIELD™ Urethane Primer, E2W840

MIXING

- Stir or shake GENESIS® LE 3.5 VOC Basecoat Color thoroughly before mixing.
- a. For large repairs and overalls mix 3 parts GENESIS® LE 3.5 VOC Basecoat Color with 1 parts GR6070 Reducer with 1 part GH2092 Hardener. Must use GA1097 at 2 ounces per RTS gallon. Stir thoroughly and strain before use.
Pot life: 1.0 hour at 75°F.
- b. For spot repairs/stripping scenarios **any color** mix 3 parts GENESIS® LE 3.5 VOC Basecoat Color with 1 parts GR6070 Reducer with 1 part GH2092 Hardener plus 2 oz GA1097 Accelerator per sprayable gallon. Stir thoroughly and strain before use. **Pot life:** 1 hour at 75°F.
- GR6070 reducer is designed for all temperature ranges and in the GENESIS® LE 3.5 VOC Basecoat Color system only. Use of any other reducers will affect metal control and application parameters.

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APPLICATION

Overall 3:1:1 + 2 oz GA1097

1. Adjust air pressure at the gun to 55 psi for siphon, gravity or pressure feed (adjust pot pressure to 5-10 psi for 8-12 fluid ounces per minute delivery).
2. Apply basecoat in medium coats at a gun distance of 6-8 inches. Allow each coat to become hand slick before applying the next coat. Spray to hiding only. To eliminate mottling effect, use a light mist coat immediately after last coat.
3. Clean spray gun immediately after use with a quality lacquer thinner.
4. Allow **at least 30 minutes flash before clearcoating**; cooler temperatures will extend the clearcoat recoat time.
May be recoated up to two weeks without scuff sanding.

Spot Repairs and Striping 3:1:1 + 2oz. GA1097 per RTS gallon

1. Check repair color for match by spraying out a test panel and comparing it to OE color prior to spraying actual repair.
2. Adjust air pressure at the gun to 55 psi for siphon feed or pressure feed (adjust pot pressure to 5-10 psi).
3. Apply GENESIS® LE 3.5 VOC Basecoat (as mixed) at a gun distance of 4-6 inches; spray to hiding, allowing each coat to become handslick before applying the next coat.
4. To eliminate mottling effect, use a light mist coat immediately after last coat.
5. For blending recommendations refer to BS10 Product Data Sheet AS2515.
6. Allow **at least 30 minutes flash before clearcoating**; cooler temperatures will extend the clearcoat recoat time.
May be recoated up to two weeks without scuff sanding.

Equipment

<u>Gun Type</u>	<u>Nozzle</u>	<u>Air Pressure</u>
Conventional Siphon Feed	1.3-1.5 mm	50-55 psi
Conventional Gravity Feed	1.3-1.5 mm	50-55 psi
Conventional Pressure Feed	0.8-1.1 mm at 8-12 oz/min	50-55 psi
HVLP Gravity Feed	1.3-1.5 mm	10 psi at cap
HVLP Pressure Feed	0.8-1.1 mm at 8-12 oz/min	10 psi at cap
Reduced Pressure Gravity	1.3-1.5 mm	follow gun manufacturers recommendation
Reduced Pressure Pressure	0.8-1.1 mm	follow gun manufacturers recommendation

DRYING SCHEDULE

Dry times are based on the recommended dry film thickness of an average 1.5 mils basecoat.

• **Air Dry Times**

GENESIS® Basecoat: Using Maximum accelerator level
Tack Free: 5-10 minutes
Tape Free: 4-6 hours

• **Force Dry Times**

GENESIS® LE Basecoat:	<u>Temperature</u>	<u>Time to Tape Free</u>
	120°F	40 minutes
	140°F	30 minutes
	180°F	20 minutes

CLEARCOATING

Clearcoat GENESIS® LE 3.5 VOC Basecoat with Genesis® Clearcoats. Refer to appropriate product label or data page for complete information.

NOTES

The GENESIS® LE 3.5 VOC Basecoat can be recoated with itself or clearcoat (GCC340/GCC700) for up to 2 weeks without scuff sanding.

PRODUCT USE

- Ideal as a refinish coating for fleets, trucks, and specialty vehicles.
- Provides a high gloss, extremely durable, chemical/solvent resistant finish.
- Resists stone chips, harsh environments..
- Multiple choice of clearcoats depending on application and VOC constraints.

SUITABLE SUBSTRATES

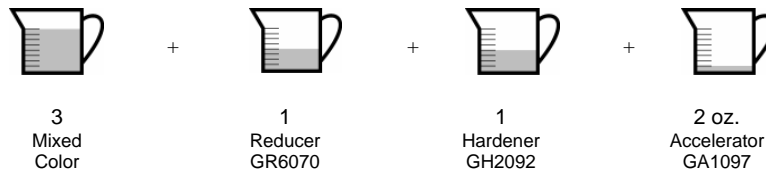
- PRIME-SHIELD™ Urethane Primers, E2A820/R822/W823
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SURFACE PREPARATION

- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with clean cloth.
- **Solvent clean** with Low VOC Surface Cleaner W4K157 and wipe dry with a clean cloth.
- **Grind** repair area to remove paint and all rust as needed.
- **Sand** all areas to be refinished and featheredge all broke film areas.
- **Treat** bare metal with a Sherwin-Williams conditioner or etching primer or DTM Primers. Check local regulations to verify etching primers are VOC exempt.
- **Prime** with Sherwin-Williams primer.

MIXING

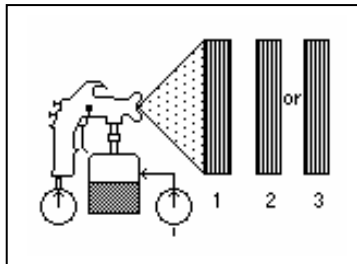
- Stir or shake GENESIS® LE 3.5 VOC Basecoat thoroughly before mixing.
- Mix 3 parts color to 1 parts GR6070 Reducer to 1 part GH2092 Hardener.



APPLICATION

GENESIS® MC 3.5 VOC Basecoat*

Apply medium coats until black/white hiding achieved. Allow each coat to become hand slick



*See APPLICATION on previous page for complete equipment recommendation.

RECOAT

- Basecoat must be scuff sanded and then reapplied if not clearcoated within two weeks

PERSONALPROTECTION

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