



SHERWIN-WILLIAMS
Automotive Finishes

GENESIS® Basecoat
Air Dry, Low VOC Acrylic Polyurethane
Basecoat / Clearcoat
Product Data Sheet
GB Series

PRODUCT DESCRIPTION

Genesis® Low VOC Acrylic Polyurethane Basecoat/Clearcoat is extremely durable, provides high gloss and is chemical/solvent resistant. Genesis® Basecoat/Clearcoat is ideal for OEM, Fleet, Truck, and special vehicle finishing. Genesis® Basecoat/Clearcoat locks metallic/mica in position requiring minimal flash before clearcoating. Genesis® Basecoat can be taped on in an hour and is ideal for doing multiple colors or striping. The system offers a choice of acrylic urethane clearcoats to fit customer requirements.

TECHNICAL DATA

- **Mixing ratio by volume** Color : Reducer : Hardener 18 : 6 : 1
- **Max VOC** VOC less exempt 3.5 lbs/gal, 420 g/l
- **Viscosity (sprayable)** Gardner #2 Zahn Cup (ISO calibrated) 17-18 sec.
- **Flash point** PMCC (white) w/ GR1088 18°F
w/ GR2070 88°F
- **Coverage @ 1 mil dry** (white) 359-437 sq. ft./gallon
- **Recommended min. dry film thickness** Spray to Black and White hide

- **Basecoat/Clearcoat Performance after one-week air dry**
 - Flexibility (1/8" conical mandrel) Pass
 - Chemical resistance (24 hr. covered contact)
 - 10% Hydrochloric acid No effect
 - 10% Sulfuric acid No effect
 - 10% Sodium hydroxide No effect
 - Muriatic Acid No effect
 - Gasoline No effect
 - Motor Oil No effect
 - Antifreeze No effect
 - Salt spray resistance -500 hrs*(ASTM D2247) No effect
 - Humidity resistance - 96 hours*(ASTM B117) No effect
- * Over properly treated and primed metal

SUITABLE PRIMERS

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

MIXING

Air Dry GENESIS® Basecoat

1. Stir or shake GENESIS® 3.5 Basecoat Color thoroughly before mixing.
2. a. For large repairs and overalls mix 18 parts GENESIS® 3.5 Basecoat Color with 6 parts GR2070 Reducer with 1 part GH2092 Hardener. Stir thoroughly and strain before use. For **whites and pastel colors** reduce up to 10% by sprayable volume with GR2070 for sprayability and overspray melt-in acceptance. **Pot life:** 6 hours at 75°F.
- b. For spot repairs/striping scenarios **any color** mix 18 parts GENESIS® 3.5 Basecoat Color with 6 parts GR1088 Reducer with 1 part GH2092 Hardener plus 3 oz GA1097 Accelerator per sprayable gallon. Stir thoroughly and strain before use. An additional 10% by volume GR1088 may be added for sprayability. **Pot life:** 6 hours at 75°F.

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APPLICATION

Overall or Large Repair using GR2070

1. Adjust air pressure at the gun to 55 psi for siphon, gravity or pressure feed (adjust pot pressure to 5-10 psi for 10-14 fluid ounces per minute delivery).
2. Apply basecoat in medium coats at a gun distance of 8-10 inches. Allow each coat to become hand slick before applying the next coat. Spray to hiding only.
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.

Repairs using GR1088 and GA1097

1. Check repair color for blendable 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 45 psi for siphon feed or pressure feed (adjust pot pressure to 5-10 psi).
3. Apply GENESIS® Basecoat (as mixed) at a gun distance of 8-10 inches; spray to hiding, allowing each coat to become handslick before applying the next coat.
4. Allow a 5 minute flash time.
5. To eliminate mottling or halo effect, set gun between 25 and 35 psi. Apply 2 light coats of a 1:1 by volume mix of Color Activated Basecoat : GT2008 at a gun distance of 8-10 inches over entire repair area. (No flash time is needed between coats).
6. Allow a 5 to 10 minute flash time before applying either GCC340 or GCC700 clearcoat. See clearcoat product data sheets for mixing and application procedures. If after applying first medium coat of either GCC340 or GCC700 clearcoat, mottling or halo effect appears, apply one light coat of a 1:1 by volume mix of Color Activated Basecoat : GT2008 over the troubled area, allow a 10 minute flash, then re-apply clearcoat.

EQUIPMENT RECOMMENDATIONS:

<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 manufacturer recommendations
Reduced Pressure Pressure	0.8-1.1 mm	follow gun manufacturer recommendations

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: 1 hour

• **Force Dry Times**

GENESIS® Basecoat:	<u>Temperature</u>	<u>Time to Tape Free</u>
	120°F	30 minutes
	140°F	20 minutes
	180°F	10 minutes

CLEARCOATING

Clearcoat GENESIS® Basecoat with CC950 or CC921. Refer to CC950 or CC921 Product Data Sheets for complete information.

NOTES

The GENESIS® Air Dry Basecoat can be recoated with itself or clearcoat (CC921 or CC950) for up to 2 weeks without scuff sanding.

PRODUCT AT-A-GLANCE

GENESIS® Basecoat Low VOC Acrylic Polyurethane Basecoat/Clearcoat GB Series

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.
- § Basecoat requires minimal flash before taping or clearcoating.
- § Choice of clearcoats for type of application

SUITABLE SUBSTRATES

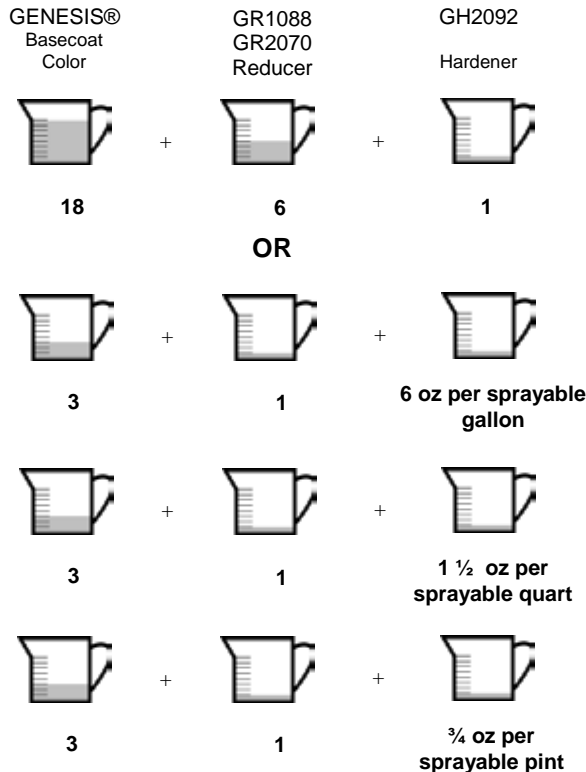
- § PRIME-SHIELD™ Urethane Primers
- § 3.5 VOC DTM Epoxy Primers
- § 2.1 VOC DTM Epoxy Primers
- § DTM Urethane Primers
- § ELEMENT SHIELD Urethane Primer E2W840
- § ULTRA-FILL II® Primer-Sealers
- § ULTRA-FILL II® Primer-Surfacers

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.
- § **Sand** all areas to be refinished and featheredge all broke film areas.
- § **Treat** bare metal with a Sherwin-Williams conditioner or etching primer. Check local regulations to verify etching primers are VOC exempt.
- § **Prime** with Sherwin-Williams primer.

MIXING

- § Stir or shake GENESIS® Basecoat thoroughly before mixing.
- § Mix **18** parts color to **6** parts GR1088 or GR2070 Reducer to **1** part GH2092 Hardener.

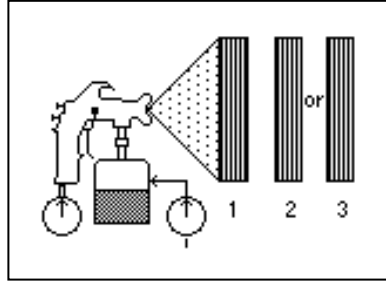


Note: Up to 10% sprayable volume of GR1088 or GR2070 Reducer may be added for sprayability/overspray melt-in. For repairs/stripping add up to 3 oz GA1097 per sprayable gallon.

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APPLICATION

GENESIS® Air Dry Basecoat*
Apply medium until black/white hiding achieved.
Allow each coat to become hand slick



Pot life: 6 hours at 75°F.

*For complete equipment recommendations see APPLICATION on previous page.

RECOAT

§ May be recoated with itself or Clearcoats (CC921 or CC950) up to two weeks without scuff sanding.

PERSONAL PROTECTION

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