



SHERWIN-WILLIAMS®
Automotive Finishes

GENESIS® M

UPS Brown
UPS Standard Trailer Gray
UPS Freight Gray
UPS Black

Low HAP's, Low VOC Polyurethane

PRODUCT DESCRIPTION

Genesis® M is a high performance, low VOC, low HAP's, two component acrylic polyurethane topcoat. The Genesis® M Factory Packaged UPS colors are Lead and Chrome Free approved products, meeting UPS color standards and should be used for the refinishing of UPS equipment including trailers, truck cabs and delivery vehicles. Genesis M is an easy-to-use, high gloss, extremely durable, chemical and solvent resistant air-dry and force-dry acrylic polyurethane topcoat. It is an extremely versatile product specifically designed for excellent hiding and sag-resistance.

Conveniently packaged 3:1 Kits.

TECHNICAL DATA

<ul style="list-style-type: none"> • Mixing ratio by volume 3:1 • Max VOC with GH1093 @ 3:1 VOC Total 3.0 lbs/gal VOC less exempt 3.5 lbs/gal <li style="padding-left: 20px;">With GH1092 @ 3:1 VOC Total 2.3 lbs/gal VOC less exempt 2.8 lbs/gal • HAP's <0.15 ls/gal RTS • Viscosity (sprayable) Gardner #2 Zahn Cup (ISO calibrated) 18-25 sec • Flash point PMCC (brown) 40°F • Coverage @ 1 mil dry (brown) 770 sq. ft./gallon • Recommended dry film thickness (2 coats) 2.0-2.5 mils • RTS Volume Solids (brown) 48% • Gloss 60° 92 20° 85 • DOI Excellent • Pencil Hardness at 48 hours H at 2 weeks 2H 	<ul style="list-style-type: none"> • Performance after one-week air dry - Impact resistance (inch-pounds) Direct 120 Reverse 60 - Flexibility (1/8" conical mandrel) Pass - Solvent resistance (10 double rubs) (MEK/Xylene/Gasoline/Diesel/Oil) No Effect - Chemical resistance (24 hr. covered contact) <li style="padding-left: 20px;">10% Hydrochloric acid No Effect <li style="padding-left: 20px;">10% Sulfuric acid No Effect <li style="padding-left: 20px;">10% Sodium hydroxide No Effect <li style="padding-left: 20px;">Gasoline No Effect <li style="padding-left: 20px;">Motor Oil No Effect <li style="padding-left: 20px;">Antifreeze No Effect - Salt spray resistance -500 hrs* No Effect - Humidity resistance - 250 hours* No Effect <p style="text-align: right;">* Over properly treated and primed metal</p>
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UPS APPROVED PRIMERS

- 3.5 VOC DTM Epoxy Primers, E2B931/W932/A933
- 2.1 VOC DTM Epoxy Primers, PSE2110/2120/2130

†Consult local regulations for VOC requirements

MIXING

1. Stir or shake Genesis® M thoroughly before mixing.
2. Mix by volume: for 3.5 VOC **3 parts Genesis® M Color with 1 part GH1093 Genesis® M 3.5 VOC Hardener.**
For 2.8 VOC **3 parts Genesis® M Color with 1 part GH1092 Genesis® M 2.8 VOC Hardener**
Stir thoroughly and strain before use. Pot life: 2 Hours @ 70°F.
Up to 10% Genesis® Reducer GR1088 or VS100 may be added based on sprayable volume to customize application properties without affecting VOC. Pot life: 3 hours @ 70°F.
3. To speed cure time, add up to 3 ounces of Genesis® Accelerator GA-1097 or 1 oz. Of GA 1098 per sprayable gallon. Refer to **Drying Schedule** section for details about cure times with Genesis® Accelerators GA-1097 and GA-1098.

APPLICATION

Overall

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. 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.
3. Clean spray gun immediately after use with Gun and Equipment Cleaner.

Repair

1. Repair process must be performed using a two-gun method. Apply Genesis® M over the repaired area carrying out the wet edge just beyond the repair.
2. Allow Genesis® M to flash per data sheet recommendations. Apply a second coat to achieve proper hiding and blending of the color into the repaired area and lightly feather the outer edge.
3. Immediately after feathering the final coat, melt the feathered edge with a wet-on-wet application using Ure-Blend™ BS10 1K.

Buffing Blend Area

- Allow finish to cure.
- If sanding is needed for dirt or smoothing the blend area, use 2000 to 2500 grit wet paper.
- Buff blend area by machine with a quality micro-finishing compound followed by machine glaze. Hand glaze if needed.

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 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 2.0 - 2.5 mils; thicker films will extend drying times.

Air dry times @ 75°F and 50% Relative Humidity:

	<u>Unaccelerated</u>	<u>Accelerated (3 oz. GA-1097 or 1 oz. GA-1098 per sprayable gal)</u>	<u>Accelerated 2 oz. GA-1098 per sprayable gal)</u>
- Dust free	2-3 hours	1 hour	40 minutes
- Tack free	6-7 hours	3 ½ hours	2 hours
- Tape free	24 hours	3 ½ hours	2 ½ hours
- Nib Sand	24+ hours	2 ½ hours	2 hours

Force dry times:

<u>Temperature</u>	<u>Tape Free Unaccelerated</u>	<u>Tape Free with 2 oz GA-1097 per sprayable Gallon</u>	<u>Tape Free with 2 oz. GA-1098 per sprayable gallon</u>
140°F	80-120 minutes	30 minutes	20 minutes
160°F	60-80 minutes	---	---
180°F	45-60 minutes	---	---

NOTES

- Decals may be applied after air-drying 72 hours at 75°F. Lower temperatures, heavy film thickness, poor air movement, thick decals, foil-based decals, etc., will extend the 72 hour dry time before decal may be applied. Refer to your local Sherwin-Williams Representative for recommendations.
- Infra-Red Recommendation: 10 min. on low for flash and 20 min. on high or until firm. Lamp should be no closer than 36 inches.
- May be recoated with itself anytime. Must be scuffed or sanded after 24 hours air dry with up to 2 ounces of GA-1097 or GA-1098.

PERSONAL PROTECTION

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

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