



PRODUCT OVERVIEW

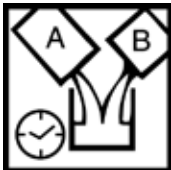
GENESIS® M is a high performance, low VOC, low HAP's, two component acrylic polyurethane topcoat. GENESIS® M is an easy-to-use, high gloss, extremely durable, chemical and solvent resistant coating system. GENESIS® G2 Series can be air-dried and force-dried and is available in solid colors only. It is an extremely versatile product and is recommended for use on airline ground support equipment, beverage trucks, concrete trucks, DOT equipment, waste trucks, public transportation equipment and other applications. Additionally, GENESIS® M Polyurethane is specifically designed for manufacturers requiring excellent hiding and sag-resistance. Conveniently packaged 3:1 for a production friendly manufacturing environment.



SUITABLE PRIMERS

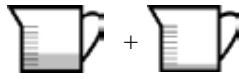
- PRIME-SHIELD® Urethane Primer E2A820/W823
- 3.5/2.1 VOC DTM Epoxy Primers E2B931/W932/A933, E2A960/W963, NP75/NP74W
- DTM Urethane Primers E2W817/818/819, E2W805
- ULTRA-FILL II® Primer-Sealers S56, S57, S58
- ULTRA-FILL II® Primer-Surfacers P47
- ELEMENT SHIELD® Urethane Primer E2W840

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



3 Parts Mixed Color
1 Part Hardener GH1093



APPLICATION

For Conventional Pressure 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, then apply a second coat in a cross-coat method. Recommended dry film thickness is 2.0-3.0 mils.

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.



DRYING SCHEDULE

Air Dry @ 75°F and 50% Relative Humidity:

	<u>Unaccelerated</u>	<u>Accelerated (3 oz. GA1097 or 1 oz. GA1098 per sprayable gal)</u>
Hand Slick	45 minutes	15 minutes
Dust free	2-3 hours	1 hour
Tack free	6-7 hours	3 ½ hours
Tape free	24 hours	3 ½ hours
Nib Sand	24+ hours	2 ½ hours



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.



PRODUCT DATA SHEET

SURFACE PREPARATION



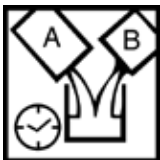
- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean cloth.
- **Solvent clean** with appropriate Sherwin-Williams® surface cleaner and wipe dry with a clean cloth.
- **Sand** all areas to be refinished and featheredge all broken film areas.
- **Treat** bare metal with a Sherwin-Williams® conditioner or etching primer. Check local regulations to verify etching primers are VOC exempt.
- **Prime** with appropriate Sherwin-Williams® primer.



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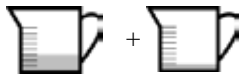
NOTE: Not for use for immersion services. Not for use on surfaces with extended surface temperatures of 250°F or more.



MIXING

- Stir or shake GENESIS® M Polyurethane G2 Series thoroughly before mixing.
- For 3.5 VOC, mix by volume 3 parts Mixed Color with 1 part GH1093 Hardener.
- Stir thoroughly and strain before use.
- Pot life: 2 hours at 70°F.

3.5 VOC Mix



3 Parts Mixed Color + 1 Part Hardener GH1093

NOTE:

- To speed cure time, add up to 3 ounces of Genesis® Accelerator GA1097 per sprayable gallon or up to 1 ounce of Genesis® Accelerator GA1098 per sprayable gallon. Pot life will be reduced to 1 hour. Refer to Drying Schedule section for dry times.



APPLICATION

Overall

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
4. 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, then apply a second coat in a cross-coat method. Recommended dry film thickness is 2.0-3.0 mils.

EQUIPMENT

<u>Gun Type</u>	<u>Nozzle</u>	<u>Air Pressure</u>
Conventional Siphon Feed	1.2-1.5 mm	50-55 psi
Conventional Gravity Feed	1.2-1.5 mm	50-55 psi
Conventional Pressure Feed	0.8-1.1 mm at 8-12 oz/min	50-55 psi
HVLP Gravity Feed	1.2-1.5 mm	8-10 psi at cap
HVLP Pressure Feed	0.8-1.1 mm at 8-12 oz/min	8-12 psi at cap



PRODUCT DATA SHEET

RECOAT

- Without accelerator added, may be recoated with itself up to 48 hours. Must be scuffed after 48 hours unaccelerated.
- With accelerator added, must be scuffed or sanded after 24 hours air dry.

DRYING SCHEDULE

Dry times are based on the recommended dry film thickness of 2.0 - 3.0 mils; thicker films, lower temperatures, or high humidity will extend drying times.

Air Dry @ 75°F and 50% Relative Humidity:

	Unaccelerated	Accelerated (3 oz. GA1097 or 1 oz. GA1098 per sprayable gal)
Hand Slick	45 min	15 minutes
Dust free	2-3 hours	1 hour
Tack free	6-7 hours	3 ½ hours
Tape free	24 hours	3 ½ hours
Nib Sand	24+ hours	2 ½ hours

Force Dry:

Temperature	Tape Free Unaccelerated	Tape Free with 3 oz GA1097 per sprayable gal	Tape Free with 1 oz. GA1098 per sprayable gal
140°F	80-120 minutes	30 minutes	20 minutes
160°F	60-80 minutes	---	---
180°F	45-60 minutes	---	---

TECHNICAL DATA

		Physical Properties:	
Mixing Ratio by Volume	3:1	10% Muriatic Acid	No Effect
Max VOC @ 3:1	3.44 lbs/gal	10% Sodium Hydroxide	No Effect
Ready to Spray Volume Solids (white)	53 %	10% Sulfuric Acid	No Effect
Coverage @ 1 mil dry (white)	870 FT ² /gal	50% Antifreeze	No Effect
Pot Life	2 hours at 70°F	Humidity 250 hours	No Effect
Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	16-24 sec	Xenon Resistance 1000 hours	No Effect
Recommended Dry Film Thickness	2.0-3.0 mils	Salt Spray 1000 hours	No Effect
		Flexibility (1/8" conical mandrel)	Excellent

GENESIS® M G2 Series 3.5 VOC	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	8.09	969	8.26	989
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	52.1	60.2	47.2	55.0
Water	0	0	0	0
Exempt Compounds	15.6	19.1	11.5	14.4
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	2.95	353	2.94	353
VOC Less Exempt	3.65	437	3.44	412
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0	0	0	0