

Ply-Guard MEA

Technical Bulletin

Ply-Guard MEA is a high solids, high build Mastic Epoxy Aluminum formulation that cures to a tough, flexible, abrasion resistant film. Ply-Guard MEA is self-priming and has excellent adhesion to rusted steel that has had proper power tool cleaning. It is easy to apply by spray, roller or brush. Ply-Guard MEA has high build characteristics allowing 18 mil WFT or more while providing high sag and run resistance. Ply-Guard MEA is an ideal product for improving and upgrading old and deteriorating coating systems.

Ply-Guard MEA is used to coat tank exteriors, bridges, metal buildings, exposed structural steel, fertilizer mixing and process installations, process equipment vessels, piping, offshore equipment and for mild immersion service. Ply-Guard MEA has superior overall chemical resistance to a broad range of chemicals in comparison to other high build mastic epoxy aluminum coatings.

Key Features

- Meets SSPC-PS 26.00, Types I and II requirements
- Forms a tough, flexible, and abrasion-resistant film
- Excellent adhesion to rusted steel, and existing, deteriorating coating systems
- Superior chemical resistance to a broad range of chemicals

Product Data	<i>(All readings taken at 25°C, unless noted)</i>
VOC Content (Lbs./gal.):	0.92
VOC Content (grams/L):	111
Flash Point (Closed Cup):	Base: 188°F (86.7°C) Catalyst: 82°F (27.8°C)
Type of Material:	Epoxy
Color:	Aluminum Standard - Medium Gloss <i>(Other colors available by request)</i>
Volume Solids (%):	90
Theoretical Estimated Coverage (ft²/gal.):	1443 @ 1 mil DFT 289 @ 5 mils DFT
Recommended Film Thickness (mils/coat):	5–7 (DFT)
Number of Coats:	Normally 1 coat
Method of Application:	Spray, Brush, or Roll
Thinner & Clean-Up Solvents:	42 Thinner, MEK, MIBK, Toluene, or Xylene
Pot Life (Hours):	12–18 Hours @ 55°F (12.8°C) 5 Hours @ 75°F (23.9°C) 1–2 Hours @ 95°F (35.0°C)

Mix Ratio

Parts by Volume:	1.0 part Base : 1.0 part Catalyst
Drying Time:	15 Hours to re-coat; 5 Days to final cure
Shelf Life:	6 months minimum in original unopened containers
Storage:	Store between 60–95°F (16–35°C)

Surface Preparation

For Atmospheric Service: Power tool or hand tool clean to remove all dirt, rust, or non-adherent coating. For more severe environments, dry abrasive blasting or water blasting to a commercial blast is preferred.

For Immersion Service: Dry abrasive blast to a white metal finish with a 1–1½ mil profile. Over new concrete, etch surface with 10% Muriatic Acid, flush with water and dry.

Application

Ply-Guard MEA may be applied by spray, brush, or roller. Cross spraying, brush, or roller application technic is highly desirable. Apply to recommended DFT using conventional, airless, brush, or roller methods.

Primer

For Atmospheric Service: Ply-Guard MEA is DMT self priming and can be used as a topcoat over many existing coatings. Contact Polyset Tech. Rep. for specific application recommendations.

For Immersion Service: WB HRZS® Primer is recommended. Contact Polyset Tech. Rep. for specific application recommendations.

CHEMICAL RESISTANCE—SERVICE APPLICATIONS

EXPOSURE	IMMERSION	SPLASH & SPILLAGE
Dilute Acids	Fair	Very Good
Dilute Alkalis	Very Good	Excellent
Aliphatic Hydrocarbons	Excellent	Excellent
Glycols	Excellent	Excellent
Ketones	Poor to Fair	Very Good
Salt Water	Excellent	Excellent
Fresh Water	Excellent	Excellent

**FOR ADDITIONAL APPLICATION & EQUIPMENT RECOMMENDATIONS,
PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.**

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