

## Ply-Guard ME

## Technical Bulletin

Ply-Guard ME is a two-component, chemical resistant Mastic Epoxy coating system designed to perform exceptionally well in a broad range of severe environments, including in the presence of strong acids/alkalis and organic solvents. It can be used as a primer and should be used wherever chemical and abrasion resistance and outstanding adhesion are essential. Ply-Guard ME is designed for use on properly prepared concrete and metal surfaces in refineries, offshore platforms, chemical plants, food and beverage plants, and pulp and paper mills.

### Key Features

- Low VOC Content
- Fast Drying
- Excellent Adhesion to Steel
- Excellent Edge Retention

### Product Uses

Ply-Guard ME is a superb coating for steel and concrete materials in severe environments, such as:

- Marine Applications (ships, off-shore rigs, dry-docks, etc.)
- Bridges (both new and existing)
- Pipelines

Ply-Guard ME can be used alone or as an intermediate tie coat or topcoat over Polyset's line of WB HRZS<sup>®</sup> water-based high-ratio zinc silicate products.

### Surface Preparation

Remove any oils, grease, loose dirt & particulate, weak sections, curing compounds, and existing coatings from the surface to be coated prior to application of Ply-Guard ME. Steel surfaces must be clean, sound & sandblasted to "Near White Metal" SSPC-10 finish immediately before application of Ply-Guard ME. After sandblasting, surface should be rinsed, vacuumed & dry prior to application. New concrete should be cured to 80% of design strength.

### Mixing

Stir individual components prior to mixing together. Mix only what may be applied during the pot life (4 hrs. max.). Mix according to specified mixing ratio. Allow 15 minute induction period to activate Ply-Guard ME before application.

### Product Data

#### Appearance @ 25°C

	Part "A"	Part "B"	Mixed
<b>Color:</b>	Gray	Dk. Amber	Gray
<b>VOC (Lbs./gal.):</b>	2.28	3.95	2.61
<b>Solids (wt.%):</b>	85.2	50.6	81.2
<b>Flash pt. (°C):</b>	30	29	35

#### Ratio & Cure

<b>Mix Ratio:</b>	4.0 Parts "A"	1.0 Part "B"	By Volume
<b>Initial Set:</b>	2-3 hrs. @ 25°C	<b>Initial Cure:</b>	5-6 hrs. @ 25°C
<b>Recoat Time:</b>	6 hrs. @ 25°C	<b>Final Cure:</b>	24 hrs. @ 25°C

#### Cured Properties

<b>Finish</b>	Satin Gloss
<b>Temp. Resistance</b>	100–125°C
<b>Recommended DFT</b>	4–6 mil (0.10–0.15 mm)
<b>Theoretical Coverage</b>	275 ft <sup>2</sup> /gal. (@ 4 mil DFT)

#### SPRAY GUN EQUIPMENT RECOMMENDATION

CONVENTIONAL:	FLUID TIP	SPRAY SHAPE
<b>Binks – Model 7E2</b>	0.015" - 0.017" orifice	Round
(Atomization Pressure: 30 psi; Fluid Pressure: 25 psi)		

*For conventional spray applications, use bottom feed outlet pressure pot with dual regulators.*

<b>Packaging:</b>	5-Gallon Kit (69.6 Lbs. Net Weight)
<b>Shelf Life:</b>	18 months in original unopened containers
<b>Storage:</b>	Store between 40–95°F (4–35°C)

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

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