



Ply-Guard ME

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 & beverage plants, and pulp & 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 & existing)
- Pipelines

Ply-Guard ME can be used alone or as an intermediate tie coat or topcoat over Polyset's line of **WB HRZS®** WaterBorne, 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, and 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

Limited Warranty: Polyset Company Inc. makes no warranty, expressed or implied, including any warranty of merchantability of fitness for a particular purpose. The sole remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the discretion of Polyset Company Inc. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL POLYSET COMPANY INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES. Copyright © 2017 Polyset Company, Inc. All rights reserved. Revised 06/015/2017

Technical Bulletin

Appearance @ 25°C

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

Ratio & Cure

Mix Ratio:	4.0 parts "A"	1.0 part "B"	By Volume
Initial Set:	2-3 hrs. @ 25°C	Initial Cure:	5-6 hrs. @ 25°C
Recoat Time:	6 hrs. @ 25°C	Final Cure:	24 hrs. @ 25°C

Cured Properties

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

SPRAY GUN EQUIPMENT RECOMMENDATION

CONVENTIONAL: FLUID TIP SPRAY SHAPE

Binks — Model 7E2 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.

Packaging: 5-Gallon Kit (69.6 Lbs. Net Weight)

Shelf Life: 18 months in original, unopened containers

Storage: Store between 40—95°F (4—35°C)

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