

MPC Plastico™



Item# EP5 Revised: 12/19/2012

Polyamide Epoxy Coating

Description

The MPC Plastico™ is a two-component industrial-grade epoxy paint and surface coating. Uniquely blended polyamide epoxy with high molecular weight. Recognized for its toughness and durability. MPC Plastico™ is recommended as a protective coating for industrial environments. MPC Plastico™ performs as a barrier for corrosion protection, resistance to abrasion and chemical attacks, and overall service life extension physical assets.

Typical Uses

MPC Plastico™ has been proven in many aggressive enclosed, immersive, and partially opened environments. MPC Plastico™ performs in areas subject to chemical attack. Ideally suited as a protective coating/lining solution for:

- Exterior/Interior tanks and vessels
- Other ferrous/non-ferrous, and concrete exterior applications

Features

- Non-chalking, ultra-high gloss sustainability
- Formulated resilience
- High reactive molecular weight
- High impact strength and vibration tolerance
- High surface tolerance and ease of application
- Excellent chemical & abrasion resistance
- Flexibility
- Various color options

Film Thickness

MPC Plastico™ can be a single coat or multiple coat system.

MPC Plastico™ can be applied onto a surface at 6 mils (minimum) to 8 mils (maximum) per coat DFT. WTF of 8 mils to 11. For a total coating thickness exceeding 8 mils DFT, multiple coats are necessary.

Theoretical Coverage

One-hundred and forty-four (144) square feet (sq.ft.) per gallon (gal.) at 8 mils DFT. Actual coverage will depend on surface conditions, irregularities, and surface profile.

Surface Preparation

The success of any coating application is directly proportional to the completeness of the substrate preparation and the care the application crew puts into the application. Surface must be clean and sound. Verify that the temperature of the surface is at least 3 degrees C (5 degrees F) higher than the dew point temperature to preclude condensation.

Metal: Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Grind any weld spatter or steel weld inconsistencies. Abrasive blasting (or other approved mechanical methods) to SSPC SP-10/NACE No.2 "Near White Blast Cleaning" must be used in order to achieve a clean surface with a minimum profile of 2.5 mils; remove dust and debris by high compressive air or solvent cleaning (SSPC-SP1) may be required again. Epoxytec's A1 Primecoat is advised as a primer should the substrate be susceptible to flash-rusting, to stripe coat any edges or bends in the metal, or should the metal not possess the characteristics to achieve optimal profiling capability.

Wood: Remove all loose particles, rot, and soft spots. The area to be coated should be sanded and rinsed. Allow time to dry thoroughly. When applying to wood, Epoxytec's B2 Primecoat is required.

Concrete: Remove all oil, dirt, and contaminates and prepare the concrete by abrasive blasting, high pressure water blasting, jetting and/or approved mechanical methods to SSPC SP-13/NACE No. 6 "Surface Preparation of Concrete." Surface should be dry and free of dust. Although primers are optional: should the substrate prove to be excessively outgassing, the Epoxytec's B1 Primecoat is recommend to reduce the occurrences of pinholing. The Epoxytec B2 Primecoat would be advised for substrate surface conditioning and enhancement.



Application Method

Material is supplied in two (2) containers (A+B) as a unit. Always mix a complete unit in the proportions supplied.

Combine entire contents of Part B with Part A and mix thoroughly with a power agitator. Mix for five (5) minutes with high speed drill and paint bit. Allow material to induce for 35 minutes. Apply by brush, roller or spray.

Packaging & Color

- 3 Gallon Kit (pails)
 - Item# EP5-G3-W (white)
 - Item# EP5-G3-LB (light blue)
 - Item# EP5-G3-DG (dark green)
 - Item# EP5-G3-DY (dark grey)
- 1 Gallon Kit (pails)
 - Item# EP5-G1-W (white)
 - Item# EP5-G1-LB (light blue)
 - Item# EP5-G1-DG (dark green)
 - Item# EP5-G1-DY (dark grey)

Thinning

Thin with Epoxytec Cut 111.

Storage & Handling

Shelf life: 24 months, sealed.

Store in a dry area away from direct sunlight. The material should be conditioned to between 24 °C (75 °F) and 35 °C (95 °F) before use.

Equipment

Brush: wide brush with short hair bristle.

Roller: mohair or foam roller.

Only use high quality Purdy® Golden Eagle™ brands or similar.

Conventional Spray: DeVilbiss MBC-510 gun; E tip and 704 air cap; double regulated pressure tank with oil and moisture separator, or equal.

Technical Properties

Type:		Epoxy / Blended Polyamide
Finish:		Gloss
Mixing ratio (by volume)		4:1
Solids by volume:	ASTM D2697	72%
Solvents (VOC) by volume:		28%
Bond strength (steel):	ASTM D4541	550 psi
Temperature exposure:		0F – 180F
Pot life:		8 - 10 hrs. @ 75F
Recoat window:		1 hrs. @ 90F- min 4 hrs. @ 75F- min 24 hr. max
Induction time:		30 minutes
Final cure:		6 hrs. @ 77F

Limitations

Apply in good weather when air and surface temperatures are above 13 °C (55°F). For optimum application properties, condition the material to 21 °C (70 °F) temperature range prior to mixing and application.

Must be induced for a minimum of 30 minutes.

Safety

Consult Material Safety Data Sheet (MSDS) for safety information.