



POLYAMIDE EPOXY ZINC PHOSPHATE PRIMER

Features

- High solids epoxy coating
- High resistance to rust and corrosion
- High adhesion properties when applied on properly primed surfaces
- Suitable for use on chemical processing plants and transportation infrastructure
- Suitable for use as a tie coat between two

General Description

Polyamide Epoxy Primer is formulated for use on ferrous and nonferrous metals in industrial and commercial applications. This epoxy primer is an excellent choice for use as a rust-inhibitive base coat when used as part of a high-performance coating system. With proper top coating, it demonstrates excellent resistance to moisture and chemicals, including solvents, acids, and alkalis. Polyamide Epoxy Primer is also suitable for use on concrete surfaces in secondary containment and immersion service applications. **This is a two-component product that requires 1 part of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

Recommended for

Properly prepared Steel, Iron, Galvanized, Aluminum, and other nonferrous metals. Guardian Zinc Phosphate Epoxy Primer is a multi-use epoxy primer for metal in the industrial maintenance market, food and beverage processing market, general metal finishing and fabrication market, chemical processing market, as well as transportation infrastructure finishing or other areas requiring a two-component, corrosion resistant primer for metal.

Limitations

- Do not paint if temperature is within 3°C of dew point, or if rain is expected within 5 hours of application.
- Available in Red Oxide or Grey Colors only.

TECHNICAL DATA

Generic Type	Polyamide Cured Epoxy Finish	Dries by	Chemical Cure
Pigment Type	Titanium Dioxide	Dry Heat Resistance	230 °F (110°C)
Volume Solids	50% ± 5.0% (when mixed as recommended)	Finish	Eggshell
Coverage per ltr	90 – 100 Sq. Ft.at Recommended DFT	Surface Temperature at Application	Min. 15°C
Recommended Film Thickness	Wet: 120 ± 5 microns		Max. 35°C
	Dry: 60 ± 5 microns		Surface must be dry and at least 3°C above the dew point
Induction time @ 30 °C	20 Minutes	Thinner	Guardian Thinner for Epoxy Finish
Drying Time @ 30°C	To Touch: 2 to 3 Hours	Pot Life	3 to 4 Hours @ 30 °C after mixing
	To Recoat: 16 to 24 Hours	Storage Temperature	Min. 15°C
	Full Cure: 4 to 5 Days.		Max. 32°C
		Recommended Topcoats	Guardian Polyamide Epoxy Finish
			Guardian Polyurethane Finish

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Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew and other contaminants that may adversely affect the application process.

NEW SURFACES

Steel: Sand blasting is recommended. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the sand-blast in order to prevent flash rusting or surface contamination. Hand tool cleaning or power tool cleaning can be used if blasting is not possible. In areas where adequate surface preparation is not possible the use of Guardian Clear Epoxy Pre-Primer is recommended.

Concrete: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Prime concrete with 1 coat Guardian Clear Epoxy Pre-Primer for improved adhesion qualities.

Galvanized and Non-Ferrous Metals: Solvent clean all surfaces. Apply 1 coat of Guardian Etch Primer to improve adhesion.

Fiberglass: Can be applied directly to clean, previously unpainted fiberglass. Scuff sand fiberglass to promote better adhesion.

Previously Painted Surface: Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, Guardian Clear Epoxy Pre-Primer may be used over all existing coatings as a barrier coat.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.

Application

Mix the "A" and "B" components thoroughly before mixing together. The use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the "A" and thoroughly mix the two together. Allow 20 minutes induction time (at 30°C) prior to applying the mixed product to the surface. Once mixed, the paint must be consumed within 3 to 4 hours to avoid gelling. Do not apply if air or surface temperatures are below 7°C or relative humidity levels are greater than 85%, or if surface or air temperatures are within 3 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 3 degrees of the dew point.

Airless Spray: Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2000 psi.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.

IMPORTANT TO NOTE

All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where color and gloss retention are important, top-coating will be necessary. Will stain with prolonged exposure to some solvents and chemicals. This staining will not affect the durability or protective qualities of the coating. Do not apply if material, surface or ambient temperature is below 45°F (7.2°C). Relative humidity should be below 85%. Do not apply if rain is expected within 12 hours of application.

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	View Finish Coat Data Sheets for Resistance Information
Salt Water	
Acids	
Alkalis	
Solvents	
Fuel	
Acidic Salt Solutions	
Alkaline Salt Solutions	
Neutral Salt Solutions	

Recommended Systems	
For Blasted Metals	1st Coat: Guardian Epoxy Zinc Phosphate Primer
	2nd Coat: Guardian Epoxy Intermediate
	3rd Coat: Guardian Polyamide Epoxy Finish
For Galvanized Metals	1st Coat: Guardian Etch Primer
	2nd Coat: Guardian Epoxy Zinc Phosphate Primer
	3rd Coat: Guardian Intermediate coat or Polyamide Epoxy Finish
For Aged Coatings	Use Direct or use Guardian Clear Epoxy Pre-Primer as a barrier coat

**KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL USE ONLY**