



Polyguard E1662

EPOXY ZINC PHOSPHATE

Product Description Two-component polyamine cured epoxy resin medium, pigmented with zinc phosphate, recommended for protection of steel structures including cranes, bridges, etc. under industrial and aggressive corrosive environments.

Typical Uses Suitable for industrial steel pipelines, structural steel and bridges, earth-moving equipment, Power plants, and fertilizer plants in corrosive atmospheric environments. Recommended for offshore environments, refineries, power plants, bridges, buildings, and mining equipment.

- Features**
- Tough-resistant coating with excellent chemical and anticorrosive properties.
 - Excellent adhesion on a properly cleaned surface.
 - Excellent physical & chemical properties.

Technical Properties	Color / Shades	Grey	
	Gloss	Matt	
	Volume Solids	49 ± 2%	
	Specific Gravity	1.4 ± 0.05 Kg/L, mixed	
	Mix ratio	3:1 by volume	
	Typical Thickness	40-50 microns [1.6-2 mils] dry equivalent to 82-102 microns [3.2-4 mils] wet	
	Coverage	9.8 m ² /liter at 50 microns DFT (Theoretical)	
	Flash Point (Typical)	32°C [90°F], mixed	
	VOC	< 355 g/L(?)	
	Thinner/Cleaner	Thinner E1	
	Drying Time	Surface Temperature	30°C
		Touch	30 minutes
		Hard Dry	8 hours
Overcoating Interval		8 hours	
Cure to Service		7 Days	
Pot Life		6 to 8 Hours, mixed	
The drying times mentioned are based on a dry film thickness of 50 microns (2.0 mils) under standard conditions.			

Surface Preparation All surfaces should be clean, dry, and free from contamination. They should also be assessed and treated in accordance with ISO 8504:2000.

Iron & Steel

Abrasive blasting to Sa 2.5 Swedish Standards is the best method of surface preparation. In case blasting is not possible, then the surface of the steel should be cleaned to St-2/5t-3 standard. The surface should be absolutely dry, moisture and oil-free before primer application.

Other Surfaces

The coating may be used on other substrates. Please get in touch with TRPL for more information.



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Application	Application Method	Thinning	Application Parameters
	Spray	10-15%	Conventional Spray Gun / Airless Spray Gun with Pressure: 160 to 200 bar Tip Size: 18,19,20 Angle: 90°, 60°
	Brush and Roller	-	For stripe coating or small areas, it is crucial to achieve the specified dry film thickness and a uniformly coated surface.

For brush application, use nylon or polyester bristles. A 3/8" woven roller cover with a solvent-resistant core should be used for roller application.

Note

- The material is supplied in two containers as a complete unit. Always mix the entire unit in the proportions provided.
- Stir the base & Hardener separately.
- Mix the hardener gradually into the base under continuous stirring as per the mixing ratio.
- Once the unit has been mixed, it should be consumed within the working pot life.
- Thinner should be added after mixing the components and post the induction time.
- Addition of Thinner as per recommended ratio in the range between 10-15 %

Application Conditions

For optimal coating results, the substrate temperature must be at least 3°C above the dew point. To ensure proper adhesion, maintain relative humidity below 85% during application. For best results, adhere to the specified induction time after mixing the two components. Regularly measure temperature and humidity near the substrate to maintain conditions. Ensure adequate ventilation in confined areas to support proper drying.

System Cleaning

Thoroughly flush the application equipment with Thinner C1 both before and after application to maintain equipment efficiency and coating quality.

Filters size and cleaning procedure

Filters should be cleaned, both in the pump and the spray gun after a certain frequency to avoid coating system chock-up and filters' recommended sizes shall be 80 and 100 mesh to smooth and trouble-free operation.

Storage

Shelf Life

12 Months, Sealed Condition

Storage Conditions

Store indoors at 4.5°C [40°F] to 38°C [100°F]

The product must be stored in accordance with national regulations. Keep the containers in a cool and dry place and well-ventilated area with no direct source of heat or light. Containers must be kept tightly closed when not in use.

Safety: Handle with care. Before & during use, observe all safety labels on packaging and paint containers, consult Material Safety Data Sheets, and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin & eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well-ventilated areas.



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