



Polyguard 1662

EPOXY ZINC PHOSPHATE

Product Description

A two-pack epoxy zinc phosphate primer cures with amine adduct, recommended for the protection of steel structures including cranes, bridges etc. under industrial and aggressive corrosive environment. It dries fast and superior to conventional zinc phosphate primers because it imparts cathodic protection to the bare metal.

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.
- Provides cathodic protection on local mechanical damage.
- Excellent adhesion on a properly cleaned surface.
- Excellent physical & chemical properties.

Technical Properties

Color / Shades	Grey	
Gloss	Matt	
Volume Solids	65% ± 2	
Specific Gravity	1.29 Kg/L	
Mix ratio	3:1 by volume	
Typical Thickness	75-150 micron [3-6 mils] dry equivalent to 115-231 microns [4.5-9 mils] wet	
Coverage	6.5 m²/liter at 100 microns DFT (theoretical)	
Flash Point (Typical)	32°C (90°F), mixed	
VOC	< 355 g/Liter	
Thinner / Cleaner	Thinner E1	
Drying Time	Surface Temperature	300C
	Touch	45-60 Minutes
	Surface	12 Hours
	Hard Dry	12 Hours
	Pot Life	2-4 Hours
	Cured to service	7 Days
	The above drying times are calculated for dry film thickness 100 micron [4.0 mils] at standard conditions.	

Surface Preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504:2000.

Iron & Steel

Abrasive blasting to Sa 2.5 (8501-1:2000) or SSPC-SP10. In case blasting is not possible, then the surface of steel should be cleaned to St-3/St 2 (ISO 8501-1:2007) or SSPC-SP2. The surface should be absolutely dry, moisture and oil-free before primer application.



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Other Surfaces

The coating may be used on other substrates. Please contact TRPL for more information.

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 / 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 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

The substrate temperature must be at least 3°C above the dew point for optimal coating results. Maintain relative humidity below 85% during application to ensure proper adhesion. Adhere to the specified induction time after mixing the two components for best results. 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 E1 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

Base: 12 Months, unopened

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.



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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.

Disclaimer: The information in this document is given to the best of TRPL's knowledge, based on laboratory testing & practical experience. TRPL products are considered semi-finished goods, as such products are often used beyond TRPL's control. TRPL can not guarantee anything but the quality of the product itself. Minor product variations may be implemented to comply with local requirements. TRPL reserves the right to change the given data without further notice. User should always consult TRPL for specific guidance on the general suitability of the product for their needs and specific application practices.