



Polytherm 250

HEAT RESISTANT ALUMINUM

Product Description: A two-pack, air-drying synthetic resin-based, heat-resistant, aluminum finish for protective and decorative purposes.

Typical Uses: This product is ideal for providing both protection and decoration, suitable for coating pipelines, storage tanks, and industrial structures exposed to high temperatures up to 250°C. It offers protective finishes for machinery, equipment, and metal surfaces vulnerable to corrosion. It serves as a heat-resistant coating for furnaces, chimneys, ducting radiators, boiler fronts, and heat exchangers, and delivers an aluminum lustrous finish for decorative purposes.

- Features:**
- Excellent heat and corrosion resistance
 - Good Adhesion and Flexibility
 - Heat resistance up to 250°C
 - Heat-reflecting aluminum lustrous finish

Technical Properties:	Color/Shades	Aluminum	
	Finish/Gloss	Smooth & lustrous effect	
	Volume Solids	33 ± 2%	
	Specific Gravity	0.95 Kg/L, mixed	
	Mix ratio	Not applicable	
	Typical Thickness	15-20 micron [0.59-0.78 mils] dry equivalent to 43-57 microns [1.7-2.3 mils] wet	
	Coverage	23.3 m ² /liter at 15 microns DFT (theoretical)	
	Flash Point (Typical)	30°C (86°F), mixed	
	VOC	< <u>250 g/L ?</u>	
	Thinner / Cleaner	Thinner H1	
Drying Time		Surface Temperature	30°C
		Surface dry	2-3 Hours
		Dry to handle	6-8 Hours
		Hard Dry	12 hours
		Recoat	Minimum: 12 Hours
			Maximum: -
		Cure to Service	Overnight

The drying times mentioned are based on a dry film thickness of 20 microns under standard conditions.



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Surface Preparation:

The surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign materials to ensure adequate adhesion.

Iron & Steel

Abrasive blast cleaning to a minimum Sa 2½ (8501-1:2000) or SSPC-SP6. If blast cleaning is not possible, use wire brush to remove loose rust/scale & hand or power tool clean to a minimum St2 or St3 (ISO 8501-1:2007) or SSPC-SP2.

Application

Application Method

Thinning

Application Parameters

Conventional Spray

10%

Pressure: 2.8-3.5 Kg/cm²

Brush

-

For small areas only

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:

- Actual coverage of paint depends on the surface conditions.
- Stir the paint well in an MS container and during mixing it with aluminum paste and clear medium

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.

Storage

Shelf Life: 12 Months, unopened

Storage Conditions: Store indoors at 30°C [86°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.

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.