



# Polytherm E600

## HEAT RESISTANT

**Product Description** A single-pack, ambient temperature cured, high performance, aluminum pigmented silicone resin coating with excellent luster, protective properties, and heat resistance up to 600°C dry temperature.

**Typical Uses** Ideal for industrial and high-temperature environments. It ensures durable performance and aesthetic appeal. It is used for coating furnace equipment, reaction vessels, hot metal stacks, chimneys, boilers, ducts, piping, and furnace structures as well as internal and external structures in factories, industrial plants, etc.

<b>Technical Properties</b>	<b>Color/Shades</b>	Aluminum	
	<b>Finish/Gloss</b>	Smooth & Glossy	
	<b>Volume Solids</b>	18%, mixed	
	<b>Specific Gravity</b>	1.0 ± 0.03 Kg/Liter	
	<b>Mix ratio</b>	Not Applicable	
	<b>Typical Thickness</b>	15-20 microns [0.6-0.8 mils] dry equivalent to 75-100 microns [3-3.9 mils] wet	
	<b>Coverage</b>	10 m <sup>2</sup> /liter at 20 microns DFT (theoretical)	
	<b>Flash Point</b>	30°C [86°F]	
	<b>VOC</b>	<b>&lt; 446 g/Lit</b>	
	<b>Thinner/Cleaner</b>	Thinner H1	
	<b>Drying Time</b>	<b>Surface Temperature</b>	<b>30°C</b>
		Surface dry	30 Mins
		Overcoating	24 Hours
Hard		24 Hours	
Pot Life		NA	

These figures are provided at dry film thickness of 20 microns DFT 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.

Cleanliness: Blast cleaning to min. Sa 2½ (ISO 8501 1:2007). The surface should be absolutely clean, dry, moisture, oil and salt free before primer application. The primer should be applied preferably immediately or within 3 hours after blasting for best performance.



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Application	Application Method	Thinning	Application Parameters
	Airless Spray	5%	Tip Range 0.33-0.43 mm (13-17 thou) Fluid pressure at spray tip: > 112 kg/cm <sup>2</sup> (1590 psi)
	Conventional Spray	5%	Tip Range 0.33-0.43 mm (13-17 thou) Fluid pressure at spray tip: > 112 kg/cm <sup>2</sup> (1590 psi)
	Brush & Roller	-	For small areas only

If a brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Pressure is for a material temperature of 20°C [68°F].

**Note:**

- Material is supplied in MS containers as a unit. Always mix the complete unit in the proportions supplied.
- Stir the material properly for better results and homogeneity.
- For better temperature resistance properties, apply appropriate primer on blast-cleaned surfaces.

### Storage

#### Shelf Life

12 Months, when sealed

#### 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.

**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.