

PLASCOLINE 1000 EPOXY PHENOLIC – TANK LINING

PRODUCT CODE: PEX 1000 Series (Base) & PEH 1 (Curing agent)

TECHNICAL DATA SHEET

Product Description	Solvent free epoxy phenolic modified tank lining.																			
Intended Uses	<ul style="list-style-type: none">Used for coating of internal petroleum tanks.To provide corrosion protection in industrial and marine environments.For the internals of steel storage tanks carrying the following cargoes: - jet fuel, diesel, un-leaded and leaded petrol and ballast water tanks.																			
Features & Benefits	<ul style="list-style-type: none">Complies with MIL-PRF-4556F for fuel, oil and jet fuel storage not exceeding 52 °CSuitable for immersion service.Very low permeabilityVery good application propertiesExcellent corrosion resistance																			
Product Information	Appearance	Gloss																		
	Colours	White (PEX 1001), Ivory (PEX 1004) ,Grey Green (PEX 1006)																		
	Volume solids	100%																		
	SG	1,29 Kg/L																		
	Recommended DFT	250 – 600 µm per coat																		
	Recommended WFT	250 – 600 µm per coat																		
	Number of coats	2 coats of 250 µm for fuel storage 2 coats of 150 µm for water storage																		
	Theoretical Spreading rate	4.0m²/L @ 250 µm DFT , 1.7 m²/L 600 µm DFT																		
	VOC (Mixture)	≤ 0.8 g/kg																		
	Flash Point (Closed Cup)	Base: ≥ 159 °C, Curing agent: ≥ 166 °C																		
Application Details	Mixing ratio	Volume: 2.4 parts (PEX 1000) Base to 1 part (PEH 1) Curing Agent																		
	Mixing	Stir both components separately with a power mixer until homogeneous. Add the hardener to the base and mix thoroughly together for 3 minutes. Mix only in proportions shown above. Do not split packs.																		
	Method	Airless spray: Recommended Tip size: 0.019” – 0.023” Nozzle pressure: 245– 350 kg/cm² (2.500 –3000 psi.) Pump ratio. 60:1 Brush and roller for small repairs. Trowel for pit filling.																		
	Diluent	CP 95: Add 3-8% by volume in cool conditions where smaller airless pump ratio is used to assist with atomisation. The CP 95 additive must be stirred into the base (PEX 1000) prior to adding the curing agent (PEH 1). The product temperature must be kept between 18-25 °C for optimum spray characteristics and longer pot life.																		
	Thinner	Not recommended																		
	Cleaner	EPOXY REDUCER (EPT 2)																		
	Pot life	40 minutes @ 23 °C																		
	Application Environment	<table><tr><td>Surface Temperature</td><td>Ambient Temperature</td><td>Relative Humidity</td></tr><tr><td>Min: 10 °C</td><td>Min: 10 °C</td><td>Min: 10%</td></tr><tr><td>Max: 40 °C</td><td>Max: 40 °C</td><td>Max: 80%</td></tr><tr><td colspan="3">Or 3 °C above dew point</td></tr></table>				Surface Temperature	Ambient Temperature	Relative Humidity	Min: 10 °C	Min: 10 °C	Min: 10%	Max: 40 °C	Max: 40 °C	Max: 80%	Or 3 °C above dew point					
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	Drying Time	Drying times are dependent on temperature, ventilation and film thickness.																		
		<table><tr><td colspan="5">At 23 °C and 250 µm DFT.</td></tr><tr><td>Touch dry</td><td>Hard dry</td><td>Full Cure</td><td colspan="2">Over coating Interval</td></tr><tr><td>6 h</td><td>12 h</td><td>7 Days</td><td>Min: 12 h</td><td>Max: 36 h</td></tr></table>				At 23 °C and 250 µm DFT.					Touch dry	Hard dry	Full Cure	Over coating Interval		6 h	12 h	7 Days	Min: 12 h	Max: 36 h
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Storage & Packaging	Store away from direct sun, heat, open flames, sparks or severe cold. Shelf life: 12 months. Dual Packs: 17.5L unit: - 12L in a 20L container Base (PEX 1000). 5L in a 5L container Curing Agent (PEH 1)																			

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Surface Preparation	<p>All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.</p> <p>STEEL:</p> <ul style="list-style-type: none"> • The surfaces to be coated must be clean, dry and free from contamination. • Oil and grease should be removed using PLASCON AQUASOLV DEGREASER (GR1) followed by clean water rinses. • Soluble chloride content may not exceed 75mg /m². • Surface preparation is abrasive blast cleaned to Sa 3 of the International standard ISO 8501-1:2007 to achieve a surface profile between 50 - 75 µm. Apply HOLD TIGHT after blasting for corrosion protection of ≤48 hours. • Dust and debris not to exceed 0.3% when tested in accordance with SANS test method 769. • Areas of breakdown, damage or weld seams should be prepared to the specified standard and patch primed with PLASCOLINE PEX 1000 series. • If oxidation occurs the entire oxidised area should be re-blasted to the standard specified above.
Caution	<ul style="list-style-type: none"> • For interior use only, will chalk and yellow on outdoor exposure. • Apply PLASCOLINE PEX 1000 series as soon as possible after surface preparation to prevent any contamination or re-oxidation of the substrate. • Note that on large surfaces PLASCOLINE BLAST HOLDING PRIMER (PEX 1030) may be necessary to prevent flash rust and to hold the blast.
Safety Precautions	<ul style="list-style-type: none"> • Always keep paint out of reach of children. • Ensure good ventilation during application and drying. • If accidental contact with skin should occur, wash immediately with soap and water or a recognised skin cleaner. • Take care to avoid contact with the eyes. In case of contact, immediately rinse the eyes with plenty of water and seek medical attention. • Harmful if swallowed. Seek medical attention and do not induce vomiting. • Do not smoke while painting. • Flammable. Store in a cool dry place away from heat and sparks. • Refer to Safety Data Sheet for complete information.
Shipping Weight	Dual Pack: 12L (PEX 1000), 5L (PEH 1)

DISCLAIMER:

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

N.B: Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

NB: TO ORDER: Quote product name, product code number, packaging and colour.

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