HilonTherm 8100

Epoxy Phenolic Heat Resistant

Product Description

A two pack, high build Epoxy Phenolic coating, suitable for the high temperature corrosion protection under insulation or uninsulation condition.

Recommended Uses

As a heat resistant coating can be operated on the dry and high temperature surface where the temperatures up to 250℃.

Product Information

Color	TH1001 Red
	TH1002 Grey
Part B (Curing Agent)	THC100
Volume Solids	68% ± 2%
Typical Film Thickness	100 microns dry (147 microns wet)
Theoretical Coverage	6.8 m^2/litre at 100 microns D.F.T.
Mix Ratio	Part A (Base) : Part B (Curing Agent) = 5.5 : 1 (by volume)
Flash Point	28℃
VOC	298 g/lt (EPA method 24)

Surface Preparations

All surfaces to be coated should be clean, dry and free from contamination. High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil or grease, soluble contaminants and other foreign matter in accordance with SSPC–SP1 solvent cleaning.

Newbuilding/M&R	This product must only be applied to surfaces prepared by abrasive blast cleaning to a minimum Sa2½ (ISO 8501–1:2007). A sharp, angular surface profile of 50–75 microns is recommended.
Aged coatings	HilonTherm 8100 may be applied directly over aged HilonTherm 8100 following thorough fresh water washing and degreasing provided the coating to be overcoated is in an intant and tightly adhesion condition.
Others	Please consult Hilong representative.

Application

ApplicationCondition	Surface temperature must always be a minimum of 3℃ above dew point. The relative humidity during application and curing should not exceed 80%. When applying HilonLining 8100 in confined spaces ensure adequate ventilation.
Mixing	Well agitate Part A (Base) and Part B (Curing Agent) separately. Then combine 5.5 volume of Part A with 1 volume of Part B and mix thoroughly with power agitator.
Induction Period	None
Pot Life (23℃)	2 hours (Reduced at higher temperature)
Thinner	THR100
Airless Spray	Recommended, Tip Range 0.43–0.53 mm (17–21 thou) Total output fluid pressure at spray tip not less than 170 kg/cm² (2420 p.s.i.)

Air Spray	Recommended
Brush	Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness
Roller	Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness

Drying information

Temp.	10℃	15℃	25℃	40℃
Touch Dry	8 hrs	7 hrs	4 hrs	3 hrs
Hard Dry	16 hrs	12 hrs	8 hrs	6 hrs

Overcoating Data

Temp.	10℃		15℃		25℃		35℃	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HilonTherm 8100	36 hrs	5 days	24 hrs	4 days	16 hrs	3 days	16 hrs	3 days

Unit Size

20 litres unit: 16.92 litres part A (Base) in a 20 litres container, 3.08 litres part B (Curing Agent) in a 5 litres container.

Storage

Must be stored in accordance with national regulations. Store in dry, shaded conditions away from sources of heat and ignition.

Health And Safety

Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information, and apply and use the coating according to the national state of health and safety as well as environmental protection standards and regulations.

Important note

The technical advice and information in this data sheet is correct to the best of our knowledge, we do not make any guarantee. Once the new version issued, this data is invalid, please contact us for the latest version