



ThermalMask 1501 is a two-component of solvent free phenolic epoxy and this coating is specially formulated to provide excellent corrosion protection and chemical resistance at immersion condition of high temperature and high pressure up to 150°C and 1,000psi.

Recommended use	As excellent corrosion protection and chemical resistance coating system designed to overcome at immersion service under high temperature and high pressure of gas-oil separation plant, heat exchanges, interior of valves and pipes.
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Physical Properties

Finish and Color	Gloss. Grey
Specific gravity	Approx. 2.00 for Mixture of Base and Curing agent.
Solids by volume	Approx. 100 % (Determined by ISO 3233)
Spreading rate (Theoretical)	1.0 – 2.0 m ² /L in 500~1000 μm dry and wet film thickness on a smooth surface. (Recommended coatings may be applied differently depending on specification)
Flash point	Base (ThermalMask 1501-A) : 46 °C / 114.8 °F (Closed cup) Curing Agent (ThermalMask 1501-B) : 39 °C / 102.2 °F (Closed cup)

Application details

Surface preparation	Remove any oil, grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc. * Steel(Mild, Carbon) : Blast cleaning to Sa2.5.				
Method of application	Airless spray, Roller or Brush application. For airless spray application ; Pump ratio : 73 : 1 Nozzle orifice : 483 μm ~ 686 μm (0.019" ~ 0.027") Output pressure : 36 ~ 44 MPa Fan : 40 ° ~ 60 ° (Airless spray data are indicative and subject to adjustment) Listed above are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.				
Mixing	Base (Part A) : Curing Agent (Part B) = 5.1 : 1 (by volume) Mix thoroughly together prior to application in the proportions with power agitator as delivered.				
Thinning	No thinning (If necessary, Thinner No. TH0260 within max. 5%) Do not dilute each component separately. Use of thinners other than those supplied or recommended by KCC may adversely affect product performance and void product warranty, whether expressed or implied.				
Application conditions	The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.				
Film thickness	500μm~1,000μm dry film thickness per 1coat. Depending on the purpose and the area of use, different film thickness may be applied.				
Drying time	Substrate temperature	5 °C / 41 °F	20 °C / 68 °F	30 °C / 86 °F	40 °C / 105 °F

	Set to touch	10 h	2 h	1 h	30 mins
	Dry hard	24 h	8 h	6 h	4 h
Pot life	Temperature	20°C/ 68 °F	30°C/ 86 °F	40°C/ 105 °F	
	Use all material within	1 h	40 mins	20 mins	
Recoating interval	At 20 °C / 68 °F, Minimum : 8 h (itself) Maximum : 5 d (itself) Before over-coating, remove the oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning.				
Heat resistance temperature	Continuous : 150°C / 302°F (Immersion service)				
Storage and package					
Shelf life	12 months				
Packing Unit	15 L (ThermalMask 1501-A : 12.55 L, ThermalMask 1501-B : 2.45 L)				
Remarks					
Note	Do not store at temperature below 5°C / 41°F or above 40°C / 104°F. Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air.				
1'st issue	2018-03-01				
Revision					

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

