



ThermalMask (Two-Component)

Product Description A two-component, phenolic epoxy resin based heavy-duty coating with excellent anti-corrosion property when used in high temperature service.

Recommended Use ThermalMask has been designed to provide a corrosion resistance when it used in a wide range of highly corrosive conditions including insulated and uninsulated pipes, stacks and equipment operating temperatures up to 230°C(Non-immersion), 90°C(Sea water immersion).
Can be applied for various metal surfaces like Steel, Stainless Steel(SUS), Aluminized Steel.

Physical Properties

Finish and Color Flat. Grey, Dark grey.

Drying Time	Substrate temperature	5°C/41°F	10°C/50°F	20°C/68°F	30°C/86°F
	Set to touch	8 h	6 h	3 h	1.5 h
	Dry through	20 h	16 h	8 h	6 h

* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions must be checked and informed from us.

Solids by Volume Approx. 65% (Determined by ISO 3233)

Theoretical Spreading Rate 6.5 m²/L in 100 microns,
4.3 m²/L in 150 microns dry film thickness on a smooth surface.

Specific Gravity Approx. 1.5 Kg/L for Mixture of Base and Curing agent.

Flash Point Base (ThermalMask -A) : 46°C/114.8°F (Closed cup)
Curing Agent (ThermalMask -B) : 27°C/80.6°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 : Blast cleaning to Sa2.5.
* SUS : Sweep blasting

Application Conditions The surface must be completely cleaned and dried. Do not apply when relative humidity is above 85%. The surface temperature must 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.

Mixing Base (Part A) : Curing Agent (Part B) =10 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life 2 hours at 25°C/77°F

Preceding Coat None

Thinning Thinner TH0260
Do not dilute each components separately, only the mixture.

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Application Method	Spray (Airless or Air), Roller or Brush application. For airless spray application ; Nozzle orifice : 0.019" ~ 0.027" Output pressure : 1,700 ~ 2,200psi / 120 ~ 150atm Fan : 40° ~ 60° (Airless spray data are indicative and subject to adjustment) * For more detail information, please refer to KCC's tank lining guide.
Typical Film Thickness	100-150 μ m x 2coats dry(Steel), 150 μ m x 1coat(Aluminized steel) May be specified in another film thickness than indicated depending on purpose and area of use.
Recoating Interval	At 20°C/68°F, Minimum : 8 h Maximum : 30 d Prior to overcoating, remove the oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.
Shelf Life	12 months
Heat Resistance	Immersion(Sea water) : Max. 90°C/194°F Non-immersion : Max. 230°C/446°F
Standard Packing Unit	16.5L (ThermalMask -A : 15L, ThermalMask -B : 1.5L),
Remarks	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.
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