

A two-component, micaceous iron oxide functional pigment and phenolic epoxy resin based heavy-duty coating with excellent anti-corrosion property when used in high temperature service.

Also, it is suitable for cryogenic temperatures, down to -196°C (-321°F).

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) and Aluminized Steel by single coating system for primer, intermediate and topcoat.
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Physical Properties

Finish and Color	Flat. Grey, Dark grey, Silver.
Specific gravity	Approx. 1.5 for Mixture of Base and Curing agent.
Solids by volume	Approx. 66% (Determined by ISO 3233)
Spreading rate (Theoretical)	6.6 m^2 /L in 100 microns, 4.4 m^2 /L in 150 microns dry film thickness on a smooth surface.
Flash point	Base (ThermalMask -A) : $46^{\circ}\text{C}/114.8^{\circ}\text{F}$ (Closed cup) Curing Agent (ThermalMask -B): $27^{\circ}\text{C}/80.6^{\circ}\text{F}$ (Closed cup)
Volatile Organic Compounds(VOC)	Korea Clean Air Conservation Act (including maximum dilution ratio) : 359 g/L (Determined by KS M ISO 3251)

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 : Hand tool cleaning to St2, formation of surface profile by sand paper.
Method of application	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)
Mixing	Base (Part A) : Curing Agent (Part B) = 5 : 1 (by volume) Mix thoroughly together prior to application in the proportions with power agitator as delivered.
Thinning	Thinner TH0260 (Max. 10%, Vol) Do not dilute each components separately, only the mixture.
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.
Film thickness	100–150 μm x 2coats dry(Steel), 150 μm x 1coat(SUS, Aluminized steel)

- * May be specified in another film thickness than indicated depending on purpose and area of use.
- * Please follow the recommended coating thickness to avoid excessive coating thickness.

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.				
Pot life	2 hours at 25°C/77°F.				
Recoating interval	At 20°C/68°F, – Minimum : 8 h – Maximum : 30 d Long term exposure might cause the chalking and 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.				
Heat resistance temperature	Immersion(Sea water) : Max. 90°C/194°F Non-immersion : Max. 230°C/446°F				

Storage and package

Shelf life	12 months (77°F / 25°C)
Storage	Do avoid humidity and direct light.
Packing Unit	15L (ThermalMask -A : 12.5L, ThermalMask -B : 2.5L)

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. Note that the paint performance may be changed when exposed to high temperature.
1'st issue	2016-11-01
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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.

