



ThermalMask 1502 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 up to 200°C.

<b>Recommended use</b>	As excellent corrosion protection and chemical resistance coating system designed to overcome at crude oil immersion service under high temperature of Tank, Valves and Pipes.
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### Physical Properties

<b>Finish and Color</b>	Gloss. Grey
<b>Specific gravity</b>	Approx. 2.00 for Mixture of Base and Curing agent.
<b>Solids by volume</b>	Approx. 100 % (Determined by ISO 3233)
<b>Spreading rate (Theoretical)</b>	1.0 – 2.0 m <sup>2</sup> /L in 500~1000 μm dry and wet film thickness on a smooth surface. (Recommended coatings may be applied differently depending on specification)
<b>Flash point</b>	Base (ThermalMask 1502-A) : 46 °C / 114.8 °F (Closed cup) Curing Agent (ThermalMask 1502-B) : 39 °C / 102.2 °F (Closed cup)
<b>Volatile Organic Compounds(VOC)</b>	Korea Clean Air Conservation Act (including maximum dilution ratio) : 107 g/L (Determined by KS M ISO 3251)

### Application details

<b>Surface preparation</b>	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.
<b>Method of application</b>	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.
<b>Mixing</b>	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.
<b>Thinning</b>	No thinning (If necessary, Thinner No. TH0260 within max. 10%) 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.
<b>Application conditions</b>	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.
<b>Film thickness</b>	500μm~1,000μm dry film thickness per 1coat.

Depending on the purpose and the area of use, different film thickness may be applied.

<b>Drying time</b>	Substrate temperature	5 °C / 41 °F	10 °C / 68 °F	20 °C / 86 °F	30 °C / 105 °F
	Set to touch	10 h	5 h	2 h	1 h
	Dry hard	24 h	18 h	8 h	6 h
	Recoating Interval(Min)	24 h	18 h	8 h	6 h
	Recoating Interval(Max)	5 days	5 days	5 days	5 days
<p>* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC.</p> <p>* Before 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.</p>					
<b>Pot life</b>	1h at 20°C / 68°F				
<b>Heat resistance temperature</b>	Continuous : 200°C / 392°F (Crude Oil immersion service)				

### Storage and package

<b>Shelf life</b>	12 months (77°F / 25°C)
<b>Storage</b>	Do avoid humidity and direct light in indoors.
<b>Packing Unit</b>	15 L (ThermalMask 1502-A : 12.55 L, ThermalMask 1502-B : 2.45 L)

### Remarks

<b>Note</b>	<ul style="list-style-type: none"> <li>* Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors.</li> <li>* Use with adequate ventilation.</li> <li>* Respiratory protection is recommended when applying this product in confined spaces or stagnant air.</li> <li>* Note that the paint performance may be changed when exposed to high temperature.</li> </ul>
<b>1'st issue</b>	2020-11-02
<b>Revision</b>	

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.

