

2kMTI Metal Thermal Insulator

Product Description

Epoxy bicomponent, thermal insulating coating. An innovative, thermal insulating coating utilizing spherical particles that impart exceptional insulate properties to a variety of substrates. Ideal for insulating pipes, valves, tanks, structural steel, or other substrates where thermal improvement and protection is desired. Part of a durable, corrosion-resistant coating system that bonds to the substrate, greatly reducing the issues associated with corrosion under insulation. Replacement solution for jacket insulation of steam/oil pipes that require thermal insulation combined with the robustness of an epoxy coating.

Recommended Use

As a thermal insulating coating to prevent heat losses from heat alternations, heated tanks and pipes, and increase the overall energy efficiency. Ideal for engine rooms, heat exchangers and steam pipes to provide anticorrosive protection reduce heat losses and improve energy efficiency.

Film Thickness Per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	150	500	325
Wet Film Thickness (µm)	176	585	382
Coverage Rate (m ² /L)	5.67	1.70	2.62

Drying times differentiate in minimum or maximum values. Maintain recommended values during application. Coverage rate is Theoretical and does not include any losses.

Properties

Type ▶	Epoxy	Touch Dry Time▶	2h @ 20°C
Components ▶	Base A & Hardener B	Dry Through Time ▶	8h @ 20°C
Color ▶	Grey	Full Curing ▶	16h @ 20°C
Thinner/ Cleaning Solvent ▶	NanoPhos Thinner A	Min. Recoat Interval ▶	8h @ 20°C
Mixing Ratio ▶	4:1, A:B per volume	Flash Point ▶	>23°C
VOC ▶	<450 g/L	Water Resistance ▶	Excellent
Solids (%wt.) ▶	50±3	Abrasion Resistance ▶	Excellent
Solids (%vol.) ▶	85±1		

Surface Preparation

Compatible Coats: All surfaces should be clean, dry and free from oil, grease and other foreign matters or contamination. Cleaning according to ISO 8502-3:1992 Test for the assessment of surface cleanliness.

Application

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| Airless Spray ▶ | Minimum pump: 30:1, Nozzle: 13-19 |
| Brush ▶ | Recommended application method only for steam pipes, stripe coating or small narrow areas. |
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Substrate temperature should be minimum 5°C and at least 3°C above air dew point. Good ventilation is required to ensure proper drying.

Paint System

Please contact NanoPhos Marine for more information.

Health And Safety

- I. Use normal precautions such as gloves, facemasks.
- II. Adequate ventilation must be maintained.
- III. Explosion proof lights & electrical equipment.
- IV. Non- Sparking shoes & tools for workers in area.
- V. This product contains flammable materials. Forbid all flames, smoking and welding in work area.
- VI. Avoid breathing of vapor, contact with skin or eyes. If product comes in contact with skin or eyes, wash thoroughly with water and obtain medical attention.

Available Packaging

- 5L unit (Total 5L in two metal canisters | 4:1, A:B per volume)
- 20L unit (Total 20L in two metal canister | 4:1, A:B per volume)

Notes & Precautions: Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5°C to 35°C, for up to 18 months. The Technical Data should be read in conjunction with the Safety Data Sheets and Coating Technical Specification. This product is for professional use only. For more information please contact NanoPhos Marine: www.NanoPhos-Marine.com