

PRODUCT SPECIFICATION SHEET: REPTHERM 5561 TB



PRODUCT DESCRIPTION

REPTHERM 5561 TB is a high build solvent-free low emissivity coating designed to reduce heat transfer from underlying metal surfaces thereby reducing heat loss and the risk of burns through personal contact. The coating has been designed to be applied to hot operating surfaces ranging from 80°C to 140°C.

TYPICAL APPLICATIONS

Applications to hot pipework, process equipment, tanks, evaporators, separators. Also used to overcome problems of Corrosion Under Insulation.

GENERAL PRODUCT INFORMATION

Appearance

Base: Highly Structured Thixotropic liquid
Activator: Amber Liquid

Mixing Ratio

By Weight: 2.25:1
By Volume: 5.5:1

Density

Base: 0.52
Activator: 0.99
Mixed: 0.54

Solids content

100%

Slump Resistance

Nil at 2000 microns

COVERAGE RATE

Coverage rate is dependent on the surface temperature. The table below is based on coverage rates per ltr of product.

| WFT Microns/ Mil | Coverage rate m²/ ft² |
|-----------------------------|--|
| 250/10 | 4m ² /44ft ² |
| 500/20 | 2m ² /22ft ² |
| 1000/40 | 1m ² /11ft ² |
| 2000/80 | 0.5m ² /5ft ² |

MECHANICAL PROPERTIES

Adhesion

Tensile Shear when tested in accordance with ASTM D1002 on abrasive blasted mild steel with a 75 micron profile will typically be:

183kg/cm² 2,600 psi

Corrosion Resistance

When tested in accordance with ASTM B117 the material shows no sign of corrosion after:

Minimum 5000 hours Exposure

Flexural Strength tested in accordance with ASTM D790 typical values will be:

522kg/cm² 7,400psi

Hardness

Shore D to ASTM D2240 - **80**

Thermal Conductivity

When tested to ASTM C-335 0.056 BTU/hr/ft²/°F
When tested to ISO 8301 0.09 W/mK

Personal Protection

Tested to ASTM C-155 pass 5 second exposure at 140°C

Heat Resistance

Resistant to dry heat up to 140°C.

TEMPERATURE RESISTANCE

Abrasive blast cleaned plate was coated with 3mm of coating and tested at the temperatures stated below:

| Surface Temperature | Touch Temperature |
|----------------------------|--------------------------|
| 80°C | 32°C |
| 90°C | 35°C |
| 100°C | 38°C |
| 110°C | 41°C |
| 120°C | 44°C |
| 130°C | 47°C |
| 140°C | 50°C |

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CURE TIMES

The material should be applied to harden s for the times indicated below before being subjected to the conditions indicated:

Usable Life

| | |
|------|-------------|
| 10°C | 4 hours |
| 20°C | 120 minutes |
| 30°C | 60 minutes |
| 40°C | 30 minutes |

Minimum Overcoating Time

| | |
|-------|------------|
| 90°C | 10 minutes |
| 100°C | 8 minutes |
| 110°C | 6 minutes |
| 120°C | 4 minutes |
| 130°C | 2 minutes |
| 140°C | 1 minutes |

Maximum Overcoating Time

12 hours at any operating temperature

SHELF LIFE

The shelf life of the product is 2 years if unopened and stored in cool dry conditions (15-30°C/ 60-86F°). Once opened replace the lid firmly and store as above.

CHEMICAL RESISTANCE

The product resists attack by a wide variety of aqueous acidic solutions at elevated temperature and other media at lower temperatures. Refer to the Repco Technical Centre for advice.

TECHNICAL SUPPORT

Zoom Corrosion Technology offer complete technical support and assistance, from discussing application requirements to training approved local contractors. For further information please contact a REPCO representative or your nearest REPCO authorised dealer.

HEALTH AND SAFETY

Please refer to the product safety data sheet for detailed information on handling, storage, shipping and disposal.

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