

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 substrates ranging from 80°C to 140°C

Reduces Surface temperatures from 140°C to below 55°C

TYPICAL APPLICATIONS

Suitable for coating surfaces where both personal protection is required and corrosion control

- Mitigation of CUI
- External of process Vessels
- Heat Exchangers
- Ovens
- Separators

SURFACE PREPARATION

GENERAL

Metallic Substrates

Mechanical tools - All surface to be coated must be free of any previous coatings and loose rust, and prepared using mechanical grinders to ISO 8501/4 ST3

Hydro Blasting - For improved adhesion the repair surface can be hydro-blasted using clean water at a pressure of 12,000psi to NACE 5 (SSPC SP13 WJ3-WJ1). This method of preparation will ensure the majority of surface contaminants will be cleaned from the surface.

Bristle Blaster – The use of a bristle blaster is an excellent tool to obtain a clean and rough profiled surface.

Abrasive Blast Cleaning – Grit blasting the substrate to ISO 8501/4 standard SA 2.5 with a minimum 75 micron profile using an angular abrasive will provide the highest adhesion results.

The coating is applied to equipment that is offline, where the surface temperature is between 5°C – 45°C

For applications of a Thermal Barrier on to hot surfaces please refer to REPTHERM 5561 TB. Information can be requested through your local REPCO Agent.

MIXING AND APPLICATION

PRECAUTIONS

Ensure the Base component is at temperature of 15-25°C (60-77°F) and the ambient and surface temperature are not less than 3°C above the dew point. Ensure surface is between 80 – 140°C.

MIXING and APPLICATION

Transfer the contents of the Activator unit into the Base container. Using an electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved. From the commencement of mixing the whole of the material should be used within 120 minutes at 20°C (68°F).

Brush or roller application – Pour the material into a paint tray or kettle. Apply the product to the prepared HOT surface.

Operating Temp	80°C	100°C	140°C
1 st Coat	250 Microns	250 Microns	250 Microns
2 nd Coat	500 Microns	250 Microns	250 Microns
3 rd Coat	500 Microns	500 Microns	500 Microns
4 th Coat	750 Microns	750 Microns	750 Microns
5 th Coat	1mm	1mm	1mm
6 th Coat	N/A	1mm	1mm
7 th Coat	N/A	1mm	1mm
8 th Coat	N/A	N/A	1mm
TOTAL	3mm	4.75mm	5.75mm

Coverage Rates

1ltr (0.25 US gallon) of fully mixed product will give the following coverage rates –

1m² at 1mm 10.75ft² at 40mil
0.5m² at 2mm 5.3ft² at 80mil

4ltrs (1.1 US gallon) of fully mixed product will give the following coverage rates –

4m² at 1mm 43ft² at 40mil
2m² at 2mm 21.5ft² at 80mil

13ltrs (3.5 US gallon) of fully mixed product will give the following coverage rates –

13m² at 1mm 139.75ft² at 40mil
6.5m² at 2mm 69.8ft² at 80mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being coated.

TECHNICAL DATA SHEET:

REPHERM 5561 TB

CURE TIMES

The usable of this material is 120 minutes at 20°C. Please use the table below as a guide to the minimum overcoating time for the operating temperatures stated.

Over-coating times

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 - the over-coating time should not exceed 12 hours.

UNIT SIZES

This product is available in the following pack sizes –

1ltr (0.25 US Gallon), 4ltrs (1.1 US Gallons), 13ltrs (3.5 US Gallons).

COLOUR

Base Component - Grey
Activator Component - Amber

STORAGE LIFE

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

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.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Zoom Corrosion Technology accepts no liability arising out of the use of this information or the product described herein.

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