

### PRODUCT DESCRIPTION

**REPTHERM 5560 TB XF** 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.

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.

#### 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 30 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 surface at a WFT of 1-2mm (40-80 mils).

Once the first coat of material is touch dry (approx. 4 hours), apply a 2<sup>nd</sup> coat of material to all surfaces at a WFT of 1-2mm (40-80 mils).

Repeat the process until the recommended film thickness is achieved. Guidelines for this are on the bottom of the page.

**Airless Spray Application** – This can be carried out using an airless spray pump with a 14:1 ratio, with an attached hot water pump to heat spray lines. Recommended pump is a Graco C14 or similar. The temperature around the spray lines should be kept at around of 25°C – 35°C (77°F – 95°F).

It is advisable to use a short spray line no longer than 8 metres/26 feet. Spray pressure should be 700psi using a Refina EEG17 lance to apply the coating.

Circulate the product for a short time to achieve a consistent temperature. Place the container of mixed material under the press plate and drop the plate into the tin at 10-15psi. Ensure the plate is properly sealed around the internal circumference of the container.

Apply the First coat of mixed product to all surfaces at 2-3 mm (80-120mil) wet film thickness. Once the first coat of material has cured sufficiently, approximately 4 hours at 20°C (68°F), apply a second coat of material if needed to all surfaces at 2-3mm (80-120mil) wet film thickness.

#### Film Thickness Guide

Operating Temperature	80°C	100°C	120°C	140°C
Dry Film Thickness	3mm	4mm	5mm	6mm

## TECHNICAL DATA SHEET:

### REPTHERM 5560 TB XF

#### Coverage Rates

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

1m <sup>2</sup> at 1mm	10.75ft <sup>2</sup> at 40mil
0.5m <sup>2</sup> at 2mm	5.3ft <sup>2</sup> at 80mil

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

4m <sup>2</sup> at 1mm	43ft <sup>2</sup> at 40mil
2m <sup>2</sup> at 2mm	21.5ft <sup>2</sup> at 80mil

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

13m <sup>2</sup> at 1mm	139.75ft <sup>2</sup> at 40mil
6.5m <sup>2</sup> at 2mm	69.8ft <sup>2</sup> 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.*

#### CURE TIMES

At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

<b>Usable Life</b>	<b>30 Minutes</b>
<b>Minimum Overcoating</b>	<b>4 hours</b>
<b>Maximum Overcoating</b>	<b>36 hours</b>
<b>Chemical Resistance</b>	<b>3 days</b>

#### Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 4 hours at 20°C (68°F).

Maximum - the over-coating time should not exceed 36 hours.

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

#### 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.

Repcos products are manufactured for:  
Zoom Corrosion Technology  
Pembroke Lodge, 3 Pembroke Road, Ruislip,  
HA4 8NQ, England, UK  
Tel: +44 (0) 794 934 1074  
Email: sales@zoomct.com  
www.zoomct.com

**Zoom**  
CORROSION TECHNOLOGY