Product Specification Sheet

DEP 562

HT Thermal Barrier

DEP 562 HT Thermal Barrier is a three component high temperature 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. In addition, the coating provides long term protection against corrosion under insulation (CUI) Operating temperature ranges from –20^{0}C to 200^{0}C (dry).

Typical applications

The coating of hot pipework, tanks and process vessels to provide thermal insulation, or safe to touch properties.

Characteristics

Appearance

Base:	Red or grey coloured paste
Activator:	Clear amber liquid
Filler:	Fine translucent granules
Mixed:	Red or grey coloured granular paste

Mixing Ratio

By weight: 12:3:1 (B:A:F)

Density

Base:	1.415
Activator:	1.04
Filler:	0.13
Mixed:	0.854

Volume capacity

1.17 litres /Kg

Solids content

100%

Sag Resistance

Nil at 2mm

Useable Life

10°C	1 hour
20°C	30-40 minutes
30°C	15-20 minutes

Coverage

Apply the mixed material onto the prepared surface by applicator tool. Depending on desired thickness this should be in multiple coats at a target thickness of up to 2 mm per coat.

The practical coverage rate is typically 0.85 sq metres per litre per 1mm coating thickness.

Apply the second and subsequent coats as soon as possible after the first coat is dry and not in excess of 6 hours. Where the maximum over-coating interval is exceeded, the first coat should be allowed to cure hard and then thoroughly washed with detergent and water and the clean water before drying and subsequently over-coating.

Cure Times

At 20°C 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:

Hard dry	6 hours
Light loading	12 hours
Full loading	4 days
Chemical Contact	7 days

Storage life

5 years if unopened and stored in normal dry conditions (15-30°C)

Mechanical Properties

Adhesion

Tensile Shear to ASTM D1002

On abrasive blasted mild steel with 75 micron profile

199 kg/cm² (2825 psi)

Hardness

To ASTM D2240 at 20°C

85 Shore D

Corrosion Resistance

To ASTM B117

Minimum 1000 hours

Chemical Resistance

Resistant to a wide range of aggressive chemicals. Refer to DEP Technical Department for advice.

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Quality

All DE Polymers Limited products are manufactured under the scope of a fully documented quality system.

Warranty

DE Polymers Limited warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

Health and safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read and fully understood the detailed Material Safety Data Sheet.

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