

# **Product Specification Sheet**

# DEP 560

# ST Thermal Barrier

**DEP 560 ST Thermal Barrier** is a surface tolerant high build 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 Under Insulation Corrosion (UIC) and reduces the potential for condensation on pipework and vessels containing chilled fluids. Operating temperature ranges from  $-20^{\circ}$ C to  $140^{\circ}$ C (dry). The material can be applied onto dampness from condensed water.

# **Typical applications**

The coating of hot or cold pipework, tanks and process vessels to provide thermal insulation, anti-condensation or safety properties.

# Characteristics

#### Appearance

Base:	Aluminium		
	coloured	red paste	
Activator:	Clear	amber	
	liquid		
Mixed:	Aluminium		
	coloured		
	thixotropic		
	liquid		

# **Mixing Ratio**

By weight: 2.25:1 By volume: 5:1

Density
Deee

Base:	0.45
Activator:	0.99
Mixed:	0.54

Volume capacity 1.85 litres /Kg

Solids content

Sag Resistance Nil at 3mm

#### Useable Life

10°C	45 minutes
20°C	30 minutes
30°C	15 minutes

#### Coverage

Apply the mixed material onto the prepared surface by brush or squeegee using a practical coverage rate of 0.85 sq metres per litre per 1000 micron coat. Up to 3 mm can be applied in a single coat. Apply subsequent coats as soon as possible after the underlying coat is touch dry and not in excess of 36hours. Where the maximum over-coating interval is exceeded, the underlying coat should be allowed to fully harden before being carefully sweep blasted or abraded and cleaned prior to 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 reduced higher and at temperatures: Hard dry 6 hours Light loading 24 hours Full loading 2 days Chemical Contact 3 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 183 kg/cm<sup>2</sup> (2600 psi)

#### Hardness

To ASTM D2240 at 20°C 80 Shore D

Lambda Value

0.11W/m.K

### **Corrosion Resistance**

To ASTM B117 Minimum 1000 hours

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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.

Legal Notice: The data contained within this Product Specification 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. DE Polymers Limited accepts no liability arising out of the use of this information or the product described herein.

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