RESICHEM 560 Thermal Barrier XF

Resichem 560 Thermal Barrier XF is a high build solvent-free low emissivity coating designed to eradicate condensation build up on cold water lines and can be used on hot process surfaces to reduce the touch surface temperature.

Typical applications

Pipelines, external tank surfaces, evaporators, separators, pumps, valves, process equipment.

Characteristics

Appearance

Base:	Highly structured thixotropic liquid
Activator:	Amber liquid
Mixed:	Thixotropic 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%

Sag Resistance

Nil at 2000 microns

Coverage

Brush or roller applications:
The material can be applied at wet film thickness up to 2mm.
At 2mm wet film thickness the coverage rate will be 0.5m² per ltr.

Cure Times

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

Usable life

10°C	60 minutes
20°C	30 minutes
30°C	15 minutes
40˚C	7.5 minutes

Minimum overcoating time

10°C	8 hours
20°C	4 hours
30°C	2 hours
40˚C	1 hour

Maximum overcoating time

10°C	72 hours
20°C	36 hours
30°C	18 hours
40˚C	9 hours

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/ cm² (2600 psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
522kg/cm² (7400psi)

Hardness

Shore D to ASTM D2240
80

Thermal Conductivity

Tested to ASTM C-335
0.056 BTU/hr/ft/°F
Tested to ISO 8301
0.09 W/mK

Personnel Protection

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

Heat Resistance

Resistant to dry heat up to 140°C.

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Product Specification

Temperature Reduction

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

Surface Temperature	*Toucb 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

For more detailed information refer to the Resimac Technical Centre for advice.

Quality

All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty

Resimac 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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