

RESICHEM 532 HeatSil 500

Resichem 532 Heatsil 500 is a single component moisture cured silicon coating designed to provide outstanding corrosion resistance at elevated temperatures (500°C).

Typical applications

Application to hot pipework, process vessels and tanks, etc, to protect against corrosion and corrosion under insulation (CUI).

Characteristics

Appearance

Single Component

Mixing Ratio

Not applicable – single component material

Density

1.55

Solids content

82%

Sag Resistance

Nil at 90 microns

Coverage

The material should be applied in a single coat at 60-90 microns WFT. At this WFT the coating will have a theoretical coverage rate of 16.66 to 11.11m² per ltr.

Cure Times

Being moisture cured, the cure times of 532 Heatsil 500 will be significantly influenced by temperature and humidity. At 20° C and 65% Relative Humidity, typical cure times will be as follows:

Touch dry

20°C 65% RH 60 mins

Light loading

20°C 65% RH 12 hrs

Fully cured

20°C 65% RH 3 days

Storage life

1 year if unopened and stored in normal dry conditions (15-30°C)

Mechanical Properties

Adhesion

Cross hatch adhesion testing was carried out on abrasive blast cleaned steel panels. Panels were dry and immersed.

Class 0 no loss of adhesion

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
518kg/cm² (7350psi)

Hardness

Shore D to ASTM D2240
100°C 86
150°C 80
200°C 72

Heat Resistance

Suitable for dry heat conditions up to 500°C/ 932°F.

Immersion Resistance

Tested by Eddy Current and Ultrasonic techniques after coated steel immersed in water at 4 °C for 120 hours with the temperature of the steel at up to 75 °C, followed by dry exposure at 200 °C for 16.7 hours

No change in thickness of coating or any disbondment

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

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. Resimac accepts no liability arising out of the use of this information or the product described herein.