

RESICHEM 530 HA100

Resichem 530 HA100 is a single component heat activated high build solvent-free epoxy novolac coating designed to provide outstanding corrosion protection of steel.

Typical applications

Application to hot pipework, process vessels and tanks, etc, particularly to overcome problems of corrosion under insulation (CUI).

Characteristics

Appearance

Red thixotropic material
Single Component

Mixing Ratio

Not applicable – single component material

Density

1.40

Solids content

100%

Sag Resistance

Nil at 650 microns (100°)
Nil at 500 microns (150°)
Nil at 350 microns (240°)

Coverage

Resichem 530 HA100 must be applied to surfaces above 100°C.

The material should be applied in two coats at 400 microns WFT per coat. At this WFT the coating will have a theoretical coverage rate of 2.5m² per ltr per coat.

Cure Times

The product will only cure when applied to surfaces 100°C +

Touch dry

100°C 50 minutes
150°C 3 minutes
200°C 20-30 seconds
240°C 10-15 seconds

Maximum overcoating time

100°C 3 hours
150°C 1 hours
200°C 15 minutes
240°C 7 minutes

Fully cured

100°C 24 hours
150°C 4 hours
200°C 30 minutes
240°C 15 minutes

Storage life

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

Mechanical Properties

Adhesion

Tensile Shear to ASTM D1002 abrasive blasted mild steel with 75 micron profile
197 kg/ cm² (2800 psi)

Pull off Adhesion to ASTM 4541 abrasive blasted mild steel with 75 micron profile. Immersed in water at 4°C for 120 hours, steel plate heated to 75°C, followed by dry exposure at 200°C for 120 hours.

>21 MPa (3045 psi)

Adhesive failure of adhesive

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

Intercoat Adhesion with Thermoplastics

Application of Polypropylene at 150°C.
Cross Hatch Adhesion- Pass

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C.
Resistant to dry heat up to 240°C dependent on load.

Cathodic Disbondment

Tested to ISO 21809-3 Annex F in 3% NaCl at 1500mV
23°C for 28 days.
Average 4 mm (pass)

Tested to ISO 21809-3 Annex F in 3% NaCl at 1500mV at 65°C for 28 days.
Average 4 mm (pass)

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.