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

Mixing Ratio

Not applicable – single component material

Density

1.40 g/cc

Solids content

100%

Pigment volume concentration

24%

Sag Resistance

Nil at 500 microns

Useable Life

Unlimited until the product is heated.

Coverage

Apply the material onto the prepared surface by brush, roller or heated airless spray. Unless spraying, this should be in two coats at a target thickness of 250 microns per coat using a practical coverage rate of 3.5 sq metres per litre per coat. When spraying, the material can be applied as a single coat in multiple passes.

Cure Times

Cure times are dependent on the cure temperature as indicated in the table below.

Temp	Touch dry	Light loading
100°C	50 mins	2 hours
110°C	35 mins	70 mins
120°C	25 mins	50 mins
130°C	15 mins	30 mins
140°C	7 mins	15 mins
150°C	3 mins	7 mins

Storage life

A minimum of 12 months 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 and cured at 120°C.
197 kg/cm² (2800 psi)

Pull off adhesion to ASTM D4541 on abrasive blasted steel with 75 micron profile after immersion 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
> 21 MPa (3045 psi)
Adhesive failure of adhesive
(coating still adhered to steel)

Intercoat Adhesion with thermoplastic polymers

Application of polypropylene powder at 150°C.

Cross hatch adhesion - pass

Manual pull off adhesion – Cohesive in polypropylene or Resichem 530.

Cathodic Disbondment

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

Tested to ISO 21809-3 Annex F in 3% NaCl at 1500mV at 65˚C for 28 days.
Average disbondment 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 or disbondment of coating.

Corrosion Resistance

Tested to ASTM B117

Minimum 1000 hours salt spray resistance.

Hardness

Shore D to ASTM D2240

20°C	90
100°C	86
150°C	80
200°C	72

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Product Specification

Chemical Resistance

Resistant to contact with dilute acids and alkalis and many other common chemicals. Refer to 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.

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.

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