

201 CERAMIC REPAIR PASTE

201 Ceramic Repair Paste is a two component solvent free epoxy repair compound containing hardened ceramic fillers designed to fill surface erosion & corrosion on metallic surfaces.

Typical applications

worn impellers, damaged valves, separator housings, damaged pump casings, eroded pipe work, propeller, bow thrusters, rudders, corroded water boxes end plates and tube sheets.

Characteristics

Appearance

Base: Dark Grey Paste
Activator: Light Grey Paste
Mixed: Mid Grey Paste

Mixing Ratio

By weight: 5:1
By volume: 3:1

Density

Base: 2.70
Activator: 1.70
Mixed: 2.46

Volume Capacity

406cc/Kg

Solids content

100%

Sag Resistance

Nil at 25mm

1kg (2.2lb) of fully mixed product will give the following coverage rates –

0.406m² at 1mm 4.3ft² at 40mil
0.203m² at 2mm 2.2ft² at 80mil
0.135m² at 3mm 1.45ft² at 1/8"

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

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 4 hours
20°C 2 hours
30°C 1 hour
40°C 30 mins

Maximum overcoating time

10°C 12 hours
20°C 6 hours
30°C 3 hours
40°C 90 mins

Full Cure

10°C 6 days
20°C 3 days
30°C 1.5 days
40°C 18 hours

Storage life

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

Properties

Abrasion Resistance

Taber CS17 Wheels/1 Kg load
20mm³ loss/1000 cycles

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile
206kg/ cm² (2920psi)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75 micron profile
244 kg/ cm² (3480 psi)

Compressive strength

Tested to ASTM D695
1075kg/cm² (15300psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
703kg/cm² (10,000psi)

Hardness

Rockwell R to ASTM D785
100

Heat Distortion

Tested to ASTM D648 at 264psi fibre stress.
20°C Cure 58°C
100°C Cure 98°C

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C.
Resistant to dry heat up to 200°C dependent on load.

Coverage

Mechanical

Food Contact

USDA compliant for incidental food contact.

Approvals

Approved by BUREAU VERITAS for Surface Protection and Cold Repair Products applied to Marine Vessels.

Certificate No: 55258/AO BV
Expiry: 24th March 2024

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media.

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

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.

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.

Quality

All Resimac Products are

Health and safety

Please ensure good practice is observed at all times during the mixing and application of this

Resimac Ltd, Unit B, Park Barn Estate, Station Road, Topcliffe, Thirsk, YO7 3SE, United Kingdom

Tel: +44 1845 577498 Web: www.resimacsolutions.com Email: info@resimac.co.uk