

RESIMETAL 202 Ceramic Repair Fluid

Resimac 202 Ceramic Repair

Fluid is an erosion-corrosion resistant coating for use principally in fluid flow situations. The material can be applied directly to abrasive blasted steel or to surfaces previously rebuilt with Resimac 101 Metal Repair Paste or 201 Ceramic Repair Paste.

Typical applications

Suitable for the coating of equipment such as impellers, pump casings, valves, heat exchanger end plates, water boxes, separator housings, pipes, propellers, kort nozzles and rudders.

Characteristics

Appearance

Base: Dark Grey or light grey Paste
 Activator: Amber liquid
 Mixed: Thixotropic dark grey or light grey liquid

Mixing Ratio

By weight: 8:1
 By volume: 3:1

Density

Base: 2.65
 Activator: 1.0
 Mixed: 2.24

Volume Capacity

446cc/Kg

Solids content

100%

Sag Resistance

Nil at 400 microns

Useable Life

10°C 45-60 minutes
 20°C 20-30 minutes
 30°C 15-20 minutes

Coverage

Application should be carried out in two coats. To achieve the correct film thickness of 250 microns per coat a practical coverage rate of 1.4 sq m/kg should be aimed for.

Cure Times

At 20°C the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Movement without load or immersion	3 hours
Light loading	6 hours
Full loading	1.5 days
Immersion	2 days

Storage life

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

Mechanical Properties

Abrasion Resistance

Taber CS17 Wheels/1 Kg load

145mg loss/1000 cycles
 0.065cc loss/1000 cycles

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile

202kg/cm² (2875psi)

Compressive strength

Tested to ASTM D 695
 960kg/cm² (13,650psi)

Corrosion Resistance

Tested to ASTM B117

Minimum 5000 hours

Flexural Strength

Tested to ASTM D790

635kg/cm² (9000psi)

Hardness

Rockwell R to ASTM ASTM D785

100

Heat Distortion

Tested to ASTM D648 at 264psi fibre stress.

20°C Cure 48°C
 100°C Cure 95°C

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 70°C. Resistant to dry heat up to 200°C dependant on load.

Chemical Resistance

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

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.