RESIMETAL 201 Ceramic Repair Paste

Resimetal 201 Ceramic Repair Paste is a two component solvent free epoxy metal repair compound. The product has been designed for use on a wide range of metallic surfaces subject to abrasion and impact.

Typical Applications

Suitable for emergency repairs or part of planned maintenance to equipment such as worn impellers, damaged valves, eroded separator housings, damaged pump casings, eroded pipe work, propellers, bow thrusters, rudders, corroded water boxes and eroded 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%

Slump Resistance

Nil at 2.0 cm

Useable Life

10°C	50-60 minutes
20°C	25-30 minutes
30°C	15-20 minutes

Coverage

1Kg will cover 0.4 sq metres at a nominal thickness of 1mm.

Cure Times

Once hardened, material should be left for the following periods of time at 20°C before being subjected to the conditions indicated. These times will be doubled at 10°C and halved at 30°C.

Movement without load or immersion	1.5 hours
Machining and light loading	2 hours
Full loading	2 days
Immersion	3 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
147mg loss/1000 cycles
0.06cc loss/1000 cycles

Adhesion

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

188kg/cm² 2675psi

Compressive strength

Tested to ASTM D 695

1089kg/ cm² 15,500psi

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	57°C
100°C Cure	98°C

Heat Resistance

Suitable for long term water immersion at temperatures up to 70°C and intermittent contact with pressurised steam up to 120°.

Resistant to dry heat in excess of 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.

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Product Specification

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

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