

RESIMETAL 204 Heavy Duty Ceramic Repair Paste

RESIMETAL 204 Heavy Duty Ceramic Repair Paste is a heavy duty abrasion resistant repair and lining material.

Typical Applications

For use on equipment such as chutes, hoppers, pipe bends, pump casings, etc. which are subject to high abrasive wear

Characteristics

Appearance

Base: Dark Grey Paste
Activator: Pale paste
Mixed: Dark grey paste

Mixing Ratio

By weight: 4:1
By volume: 3:1

Density

Base: 2.1
Activator: 1.4
Mixed: 1.96

Volume Capacity

584cc/Kg

Solids content

100%

Slump Resistance

Nil at 2.0 cm

Useable Life

10°C 90-100 minutes
20°C 50-60 minutes
30°C 30-35 minutes

Coverage

1Kg will cover 0.55 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	4 hours
Light loading	8 hours
Full loading	4 days
Immersion	6 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
21mg loss/1000 cycles
0.012cc loss/1000 cycles

Adhesion

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

148kg/cm² (2100psi)

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

420kg/cm² (6000psi)

Hardness

Rockwell R to ASTM D785

100

Heat Resistance

Suitable for long term water immersion at temperatures up to 60°C and intermittent contact with pressurised steam up to 120°.

Resistant to dry heat up to 120°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

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