

RESIMETAL 107 Metal Repair Paste XL

Resimetal 107 Metal Repair Paste XL is a two component solvent free epoxy metal repair compound. The product has an extended working life and has been designed for use in hot climates or in situations where the complexity of an application requires a longer working time. The material can be applied to a wide range of metallic surfaces and once cured is readily machinable.

Typical applications

Suitable for emergency repairs or part of planned maintenance to equipment such as worn or damaged pump shafts, cracked pump or valve casings, scored hydraulic rams, worn bearing housings, damaged flanges, leaking tank seams, worn keyways and cracked engine blocks. The long working life of the material also makes it ideal for complex shimming operations.

Characteristics

Appearance

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

Mixing Ratio

By weight: 1.67:1
By volume: 3:2

Density

Base: 2.70
Activator: 2.4
Mixed: 2.58

Volume Capacity

388cc/Kg

Solids content

100%

Slump Resistance

Nil at 2.0 cm

Useable Life

20°C 60 minutes
30°C 30 minutes

Coverage

1Kg will cover 0.38 sq metres at a nominal thickness of 1mm.

Cure Times

Once hardened, the material should be left for the following periods of time at 20°C before being subjected to the conditions indicated.

Movement without load or immersion	5 hours
Machining and light loading	12 hours
Full loading	4 days
Immersion/chemical contact	7 days

Storage life

5 years 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

180kg/cm² (2550 psi)

Compressive strength

Tested to ASTM D 695

839kg/ cm² (11,900psi)

Flexural Strength

Tested to ASTM D790

585kg/cm² (8300psi)

Hardness

Shore D to ASTM D2240

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Heat Resistance

Suitable for long term water immersion at temperatures up to 60°C.

Resistant to dry heat up to 180°C dependant on load.

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, 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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