

## RESIMETAL 102 Metal Repair Fluid

**Resimetal 102 Metal Repair Fluid** is a two component solvent free epoxy metal repair Fluid. The product has been designed for use on a wide range of metallic surfaces and once cured is readily machinable

### Typical applications

The product is suitable for filling mechanically or abrasive blast cleaned surfaces where excessive pitting and scarring has been caused by corrosion or chemical attack. The material can also be used with aluminium oxide aggregates to create anti-slip finishes on metallic surfaces such as belt rollers, brake test rollers and steps.

### Characteristics

#### Appearance

Base: Dark Grey Paste  
Activator: Amber Fluid  
Mixed: Mid Grey Fluid

#### Mixing Ratio

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

#### Density

Base: 2.70  
Activator: 1.00  
Mixed: 2.50

#### Volume Capacity

440cc/Kg

#### Solids content

100%



#### Slump Resistance

Nil at 3mm

#### 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

#### Adhesion

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

185kg/cm<sup>2</sup> 2630psi

#### Compressive strength

Tested to ASTM D 695

1075kg/cm<sup>2</sup> 15,300psi

#### Corrosion Resistance

Tested to ASTM B117

Minimum 5000 hours

#### Flexural Strength

Tested to ASTM D790

703kg/cm<sup>2</sup> 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 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, 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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