

107 METAL REPAIR PASTE XL

107 Metal Repair Paste XL is a two component solvent free epoxy metal repair compound. The product has an extended usable life for applications in warmer climates and has been designed for use on 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 material can also be used as a gap filling adhesive.

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: 2.40
Mixed: 2.58

Volume Capacity

388cc/Kg

Solids content

100%

Sag Resistance

Nil at 25mm

Coverage

4kg (8.8lb) of fully mixed product will give the following coverage rates –

1.624m² at 1mm 17.2ft² at 40mil
0.812m² at 2mm 8.8ft² at 80mil
0.540m² at 3mm 5.8ft² at 1/8"

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Cure Times

The applied material should be allowed to harden for the times indicated below before being subjected to the conditions indicated:

Usable life

10°C 120 minutes
20°C 60 minutes
30°C 30 minutes
40°C 15 minutes

Minimum machining time

10°C 8 hours
20°C 4 hours
30°C 2 hour
40°C 60 mins

Maximum overcoating time

10°C 24 hours
20°C 12 hours
30°C 6 hours
40°C 3 hours

Full Cure

10°C 12 days
20°C 6 days
30°C 3 days
40°C 1.5 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
22mm³ loss/1000 cycles

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile
185 kg/ cm² (2630 psi)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75 micron profile
244 kg/ cm² (3480 psi)

Compressive strength

Tested to ASTM D695
1075kg/cm² (15300psi)

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 58°C
100°C Cure 98°C

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C.
Resistant to dry heat up to 200°C dependent on load.

Food Contact

USDA compliant for incidental food contact.

Chemical Resistance

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

For more detailed information 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.