

## RESIMETAL 107 Metal Repair Paste XL – extended working life solvent free epoxy with metallic fillers

Resimetal 107 Metal Repair Paste XL is a two component solvent free epoxy metal repair compound designed to fill surface erosion & corrosion on metallic surfaces. The product has an extended usable life making it ideal for repairs in warm climates.

- Apply to mechanically & abrasive blast cleaned surfaces
- High mechanical adhesion to metal substrates
- Apply at thicknesses up to 25mm (1")
- Usable life of 60mins at 20°C (68°F)

### Typical Applications

worn or damaged pump shafts  
worn bearing housings  
worn keyways  
eroded rudder surfaces

cracked pump or valve casings  
damaged flanges  
cracked engine blocks  
corroded bow thruster tunnels

scored hydraulic rams  
leaking tank seams  
damaged hulls on vessels  
cold bonding steel plate

### Surface Preparation

#### Metallic Substrates – Mechanical abrasion

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be mechanically abraded using handheld grinders to **ISO 8501/4 ST3 (SSPC SP3 ST3)**.
3. Once abraded, the surface must be degreased and cleaned using MEK or similar type material.
4. All surfaces must be coated before gingering or oxidation occurs.

#### Metallic Substrates – Abrasive blast cleaning

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** minimum blast profile of 75 microns (3mil) using an angular abrasive.
3. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
4. All surfaces must be coated before gingering or oxidation occurs.

**PLEASE NOTE:** For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

### Mixing

Prior to mixing please ensure the following:

1. The base component is at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 5°C (41°F).

Once these 2 checks have been met, please proceed with mixing the product.

If part mixing the unit of material please follow the instructions below:

1. Using the spatula provided place 3 equal measures from the base unit onto the mixing board provided.
2. Clean the spatula thoroughly.
3. Take 2 equal measure from the activator unit and place alongside the base measures.
4. Mix the 2 components together until you have a streak free mix (mid grey) on the mixing board.
5. Ensure there is no unmixed material on the spatula or mixing board.

If mixing a complete unit of material (4kg) please follow the instructions below:

1. Dispense as much of the base and activator units onto the mixing board provided.
2. Mix the 2 components together until you have a streak free mix (mid grey) on the mixing board.
3. Ensure there is no unmixed material on the spatula or mixing board.

From the commencement of mixing, the material should be used within 60 minutes at 20°C (68°F).

### Application

1. Using a spatula or applicator tool, apply the material to the prepared surface.
2. Ensure the product is pressed into any holes, scars or cracks.
3. Once the repair has been completed smooth off any imperfections using a gloved hand.

Where a machined finish is required, the repair area should be overfilled by up to 1.5mm (60mil) and once hardened machined using a surface cutting speed of 200ft/minute and a feed rate of 50 thou/rev initially and 10 thou/rev for finishing.

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## Coverage Rates

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

1.624m <sup>2</sup> at 1mm	17.2ft <sup>2</sup> at 40mil
0.812m <sup>2</sup> at 2mm	8.8ft <sup>2</sup> at 80mil
0.540m <sup>2</sup> at 3mm	5.8ft <sup>2</sup> 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

At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable Life	60mins
Machining and light loading	4 hours
Maximum overcoating time	12 hours
Full cure	6 days

## For Optimum Performance

After an initial curing period of at least 4 hours at 20°C (68°F), raising the cure temperature progressively to 60 - 100°C (140-212°F) for up to 8 hours will result in improved mechanical, thermal and chemical resistance properties

## Pack Sizes

This product is available in the following pack sizes –  
4kg (8.8lb)

## Colour

Mixed material - Dark Grey  
Base component – dark grey  
Activator component – light grey

## Over-coating times

Minimum - the applied material can be over-coated as soon as it is touch dry.

Maximum - the over-coating time should not exceed 12 hours at 20°C (68°F)

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

## Storage Life

5 years if unopened and store in normal dry conditions (15-30°C/ 60-86°F)

## Other Technical Documents

Quick Application Guide	-	Hand application
Safety Data Sheets	-	Base & Activator components
Product Specification Sheet	-	Technical Performance Information

## Health and Safety

Please ensure good practice is observed at all times. Protective gloves, goggles & a disposable coverall must be worn during the mixing and application of this product. Before mixing and applying the material ensure you have read the fully detailed Safety Data Sheet.

## Legal Notice:

The data contained within this Technical Data Sheet 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 if the product is suitable for use. Resimac accepts no liability arising out of the use of this information or the product described herein.

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