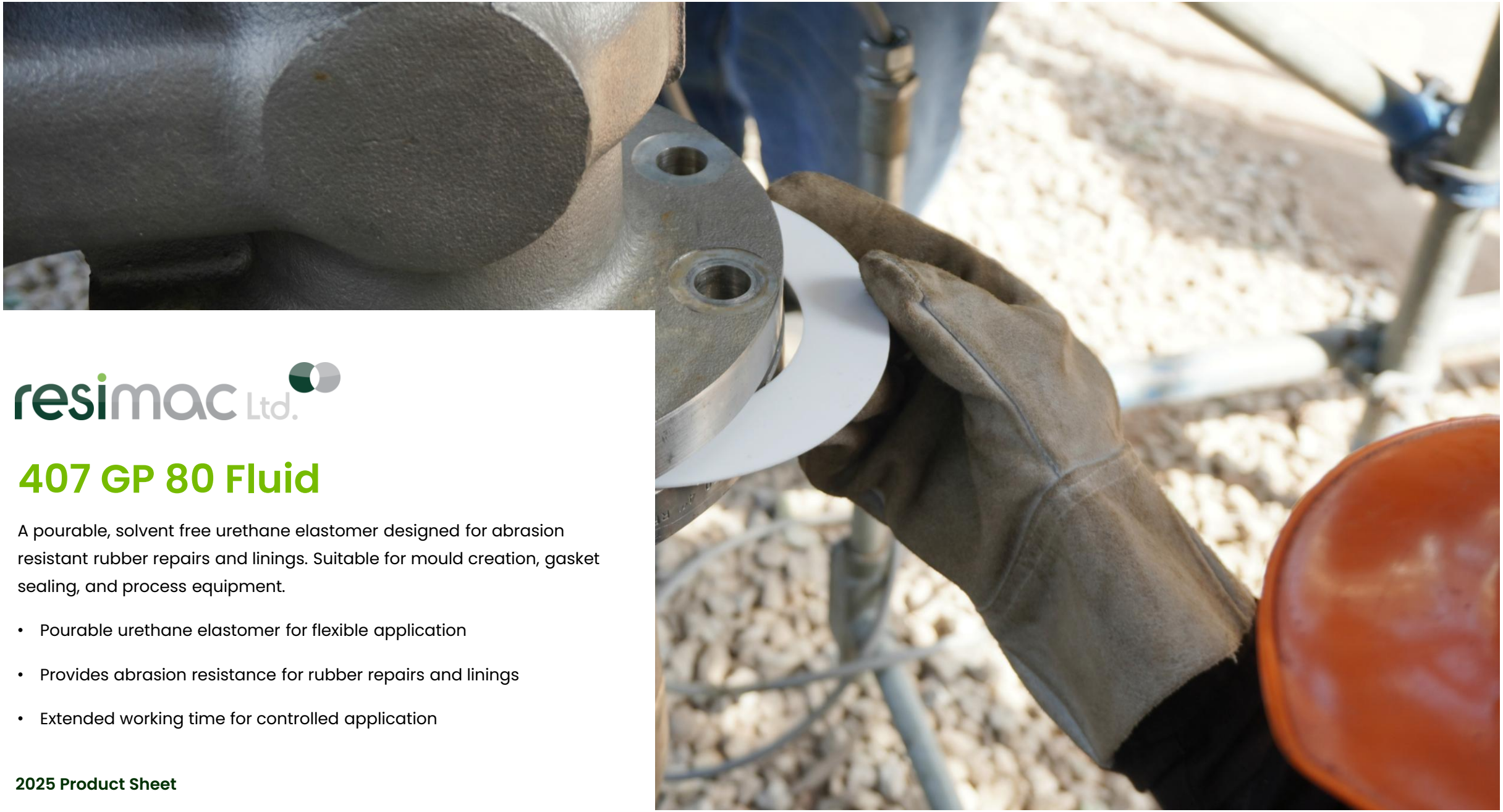

resimac Ltd.

407 GP 80 Fluid

A pourable, solvent free urethane elastomer designed for abrasion resistant rubber repairs and linings. Suitable for mould creation, gasket sealing, and process equipment.

- Pourable urethane elastomer for flexible application
- Provides abrasion resistance for rubber repairs and linings
- Extended working time for controlled application

2025 Product Sheet

Typical Applications

407 GP 80 Fluid is a two component, solvent free urethane elastomer designed for abrasion resistant linings and rubber repairs. Its pourable formulation allows for easy application by casting or brush, making it ideal for sealing, protecting, and restoring rubber surfaces such as Nitrile, Neoprene, and Natural rubber.

- Gasket sealing
- Lining of process equipment
- Casting of components

Characteristics

Appearance

Base	Amber Fluid
Activator	Amber Fluid
Mixed	Amber Fluid

Solids Content

100%

Density

Base	1.13
Activator	1.05
Mixed	1.12

Mixing Ratio

By weight	10:1
By volume	9:1

Storage Life

1 year if unopened and stored in normal dry conditions, 15- 30°C (59-86°F)

Coverage

500g will cover 1.74m² at a nominal thickness of 250 microns not allowing for losses

Slump Resistance

Nil at 250 microns

Cure times

Usable Life

10°C/50°F	60 mins
20°C/68°F	30 mins
30°C/86°F	15 mins
40°C/104°F	7 mins

Min overcoating time

10°C/50°F	8 hours
20°C/68°F	4 hours
30°C/86°F	2 hours
40°C/104°F	1 hour

Max overcoating time

10°C/50°F	72 hours
20°C/68°F	36 hours
30°C/86°F	18 hours
40°C/104°F	9 hours

Light loading Dry

10°C/50°F	16 hours
20°C/68°F	8 hours
30°C/86°F	6 hours
40°C/104°F	4 hours

Heavy Loading Dry

10°C/50°F	48 hours
20°C/68°F	24 hours
30°C/86°F	20 hours
40°C/104°F	16 hours

Water / Sea immersion

10°C/50°F	6 days
20°C/68°F	3 days
30°C/86°F	36 hours
40°C/104°F	18 hours

Chemical immersion

10°C/50°F	14 days
20°C/68°F	7 days
30°C/86°F	3 days
40°C/104°F	36 hours

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

Mechanical Properties

Tensile Strength
Tested to BS 2782: Part 3: Method 320B-4.25 MPa (43.34kg/cm²)

Elongation
Tested to BS EN ISO 37 450%

Tear Strength
Tested to BS 903:
Part A3 53.0 kN/m

Shore A Hardness
Tested to BS 903:
Part A3 53.0 kN/m

Linear Shrinkage

500 x 50 x 10mm	<0.1%

Heat Resistance
Suitable for long term water immersion at temperatures up to 50°C (122°F) and intermittent contact water contact up to 80°C (176°F) Resistant to dry heat up to 120°C (248°F)

Details & Legal

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.

Pack Sizes
This product is available in the following pack sizes:
500gm (1.1lbs) foil laminate bag

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 this document.

Application Guide

A. 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. Prime the surface with 402 Multi-surface primer.

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.
5. Prime the surface with 402 Multi-surface primer.

Health & 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 all information.

Rubber substrates:

1. Remove any surface contamination and degrease with MEK.
2. Use a suitable carding tool or MBX bristle blaster to roughen the surface before brushing away any debris.
3. Prime the surface with 402 Multi-surface primer.

B. Product Preparation

Prior to mixing, please ensure the following:

1. The ambient & surface temperature is above 10°C (50°F).
2. The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

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

C. Mixing & Application

Mix the complete unit material (500gram):

1. 407 GP 80 Fluid is supplied in a twin compartment bag with the base and activator components already pre-measured.
2. Ensure the product is around 20°C (68°F) prior to use to ease mixing.
3. Remove the plastic divider and thoroughly mix the two components by hand until homogeneous.
4. Dispense the mixed product into a mixing pot (minimum 600ml).
5. Mix the product in the pot using the spatula provided.
6. Once you have a homogenous mix pour the mixed product onto the repair surface, alternatively the product can be brush applied at thicknesses up to 250-300 microns (9-12mil).

Once all surfaces, metallic or rubber, have been prepared, apply 402 Multi-surface Primer to all surfaces using a cut down brush.

Apply the primer to the surface with a stippling action avoiding ponding and leave to cure until touch dry and for a minimum of 20 minutes at 20°C (68°F).

Quick Application Guide

Step 1

Ensure you have:
1 x 500gm sachet
1 x 402 Primer (if required)
1 x spatula
1 x brush

Step 2

Remove dividing rod from the sachet.

Step 3

By hand forcibly mix the 2 components together without piercing the sachet for approx. 3-4 mins.

Step 4

Cut the end of the sachet and dispense the material into a clean container. Mix for a further 60 seconds or until streak free.

Step 5

Apply to substrate with a brush or pour into the required space.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

Legal Notice

Information & Enquiries

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