resimac Ltd.

571 Concrete Repair LW

Lightweight, solvent free epoxy repair mortar for overhead and vertical concrete surfaces. Builds up to 50mm (2″) thick without slumping.

- Lightweight, solvent free epoxy repair mortar
- Builds up to 50mm (2″) on vertical or overhead surfaces without slumping
- Extended 60 minute working time at 20°C (68°F)
- Excellent mechanical strength and long term durability

2025 Product Sheet

Typical Applications

571 Concrete Repair LW is a three part, lightweight epoxy repair mortar formulated for vertical and overhead repairs to concrete and cementitious surfaces. Its solvent free formulation is capable of building up to 50mm (2 inches) in a single layer without sagging, making it ideal for sills, ceilings, lintels, and other non-horizontal areas.

- Ceilings
- Walls
- Coving
- Sills
- Lintels

Characteristics

Appearance

Activator	Amber liquid
Aggregate	Grey powder
Mixed	Grey

Solids Content

100%

Volume Capacity

1000cc/kg

Sag Resistance

Nil at 50mm

Density

Mixed	1.00

Mixing Ratio

As supplied

Storage Life

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

Coverage

2.5kg (5.5lbs) of fully mixed product will give the following coverage rates

0.83m² at 3mm	8.8ft² at 0.11"
0.5m² at 5mm	5.35ft² at 0.19"
0.36m² at 7mm	3.85ft² at 0.27"
0.277m² at 9mm	2.97ft² at 0.35"

Cure times

Usable Life		Touch dry		Max overcoating time	
10°C/50°F	2 hours	10°C/50°F	16 hours	10°C/50°F	48 hours
20°C/68°F	60 mins	20°C/68°F	8 hours	20°C/68°F	24 hours
30°C/86°F	30 mins	30°C/86°F	4 hour	30°C/86°F	12 hours
40°C/104°F	15 mins	40°C/104°F	2 hours	40°C/104°F	6 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

Compressive Strength
Tested to ASTM D 695
420kg/cm² (6000psi)

Direct Pull off Adhesion
Tested to ASTM D4060
35kg/cm² (500psi)

Flexural Strength
Tested to ASTM D790
280kg/cm² (4000psi)

Chemical Resistance
The product resists attack by a wide variety of low concentration industrial chemicals:

Typical Chemicals	*Max Temp*
Brine	40°C (104°F)
Crude Oil	40°C (104°F)
De-ionised Water	20°C (68°F)
Diesel	40°C (104°F)
Hydrochloric Acid 10%	40°C (104°F)
Phosphoric Acid 30%	40°C (104°F)
Sodium Hydroxide 30%	40°C (104°F)
Sulphuric acid 10%	40°C (104°F)

Details & Legal

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.

Pack Sizes
This product is available in the following pack sizes:
2.5kg (5.5lbs)

Application Guide

A. Surface Preparation

Contaminated concrete:

1. If the surface of the concrete has been contaminated with oil or industrial chemicals these must be cleaned from the repair surface.
2. If the contamination is superficial the repair area can be cleaned using a handheld mechanical grinder and then vacuumed clean.
3. For deeper ingrained contamination the use of enzymes on the surface of the repair to clean any oils/chemicals from the substrate is advised.

Coated concrete:

1. The surface of the concrete will need to be scarified to remove any existing coatings and to ensure the repair material bonds to the surface.
2. Use a handheld mechanical grinder to clean the surface.

   Once the repair area has been scarified it must be vacuumed and be dust/debris free.

Clean concrete:

1. Compressed air can be used to clean the surface and ensure all debris and contaminants have been cleaned from any hairline cracks or deep pitting.
2. A vacuum must be used to ensure the repair area is dust/debris free.

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.

B. Product Preparation

Prior to mixing, please ensure the following:

1. The material components are at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 10°C (50°F).
3. The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

C. Mixing

Mix the complete unit of material (2.5kg):

1. Take the aggregate activator component and pour into the plastic unit containing the aggregate.
2. Mix the 2 components together using the spatula provided until streak free.

D. Application

Primer application:

1. Using a brush or roller apply the mixed primer to the repair surface. Ensure the primer is forced into any small cracks or uneven surfaces.
2. Once all surfaces have been coated with the primer leave to cure for a minimum 30 minutes and a maximum of 2 hours at 20°C (68°F).
3. The primer must be overcoated with the mortar whilst still wet/tacky to the touch.

Mortar application:

1. Using a trowel apply the mixed material to the primed repair surface.
2. If needed the repair mortar can be applied in layers approximately 5-10mm per layer, alternatively the product can be applied in single coat up to 50mm (2″) thickness without sagging.
3. Once the repair area has been filled with 571 Concrete Repair LW, leave to cure for a minimum 8 hours at 20°C (68°F).

Quick Application Guide

Step 1

Ensure you have:
1 x activator unit
1 x primer base unit
1 x primer activator unit
1 x spatula
1 x slow speed drill & paddle mixer (optional)

Step 2

Open the primer activator tin and pour contents into the primer base unit. Mix until streak free and apply the repair by brush. Ensure the surface remains wet as material will be absorbed by the porosity of the concrete.

Step 3

Pour the contents of the base unit into the aggregate container. Begin mixing with the spatula and then switch to hands or drill. Mix until a uniform consistency.

Step 4

Apply the mortar onto the wet Primed area using trowels and spatulas.

Step 5

Smooth the finish as required using water or solvent to keep tools from sticking to the mortar.

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

For more information and technical data please visit our website or contact us.

www.resimacsolutions.com

info@resimac.co.uk

+44 (0) 1845 577498

Resimac Ltd,
Unit B, Park Barn Estate,
Station Road,
Topcliffe,
Thirsk,
North Yorkshire,
Y07 3SE,
United kingdom