resimac Ltd.

521 GP Epoxy Primer

Water based epoxy primer for non-porous and previously coated substrates. Offers strong adhesion, easy application, and compatibility with Resimac wall systems.

- Water based epoxy coating with low odour
- Excellent adhesion to tiles, coatings, and non-porous surfaces
- Designed for use with Resimac Hygienic Wall Coatings
- Simple application by brush or roller

2025 Product Sheet

Typical Applications

521 GP Epoxy Primer is a water based, two component primer formulated to promote strong adhesion on non-porous and previously coated surfaces. Its low odour and easy application make it especially suited to enclosed or hygiene critical environments where solvent based systems may be unsuitable.

- Factory walls
- Police cells
- Hospital walls
- Laboratories
- External surfaces
- Warehouses
- Food factories
- Offices

Characteristics

Appearance

Base	Low viscosity white liquid
Activator	Amber liquid
Mixed	Low viscosity white liquid

Solids Content

45%

Volume Capacity

694cc/kg

Sag Resistance

Nil at 150 microns

Density

Base	1.72
Activator	1.02
Mixed	1.44

Mixing Ratio

By weight	2.5:1
By volume	3:2

Storage Life

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

Cure times

Usable Life		Min overcoating time (water based)		Min overcoating time (solvent free)		Max overcoating time	
10°C/50°F	3 hours	10°C/50°F	8 hours	10°C/50°F	24 hours	10°C/50°F	96 hours
20°C/68°F	90 mins	20°C/68°F	4 hours	20°C/68°F	16 hours	20°C/68°F	48 hours
30°C/86°F	45 mins	30°C/86°F	2 hour	30°C/86°F	16 hours	30°C/86°F	24 hours
40°C/104°F	22.5 mins	40°C/104°F	1 hour	40°C/104°F	8 hours	40°C/104°F	12 hours

Coverage

5ltrs (1.2 US gallon) of fully mixed product will give the following coverage rates

50m² at 100 microns	536ft² at 4mil
20ltrs (5.3 US gallon)	
200m² at 100 microns	2146ft² at 4mil

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

Humidity Resistance
Tested to ASTM BS3900
5000 hours unaffected

Mould Resistance
Excellent

Bacteria Resistance
Excellent

Scratch Resistance
Tested to ASTM BS3900
No failure 2.5kg load

Adhesion
Pull off Tested to ASTM 4541
Elcometer pull off adhesion tester
35kg/cm² (500psi)
Failure of concrete

Heat Resistance
Maximum intermittent wet temperature resistance
70°C (158°F).
Maximum dry heat resistance
120°C (248°F).

Details & Legal

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.

Quality
All Resimac Products are supplied under the scope of the company's fully documented quality system.

Pack Sizes
This product is available in the following pack sizes:
5ltrs (1 US gallon)
20ltrs (5 US gallon)

Application Guide

A. Surface Preparation

Plasterboard:

1. Ensure the plasterboard surface is dry and free from contaminants.
2. The surface must be sealed using 522 Acrylic Sealer. Apply 522 Acrylic sealer using a short pile roller.
3. Apply the sealer at 100 microns (4mil) WFT.
4. Once cured the sealed surface must have a uniform finish, any dull patches need to be overcoated.

Glazed Tiles:

1. Degrease the tiles and grouting to ensure the surface is free from any contamination such as grease or fats.
2. Abrade the surface ensuring that a good profile is created on the surface of the tile.
3. Degrease the surface with hot water and detergents and leave to dry.

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.

Existing Concrete:

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrade or scarify taking care not to expose the aggregate. Clean all dust and debris from the surface.
3. The surface must be sealed using 522 Acrylic Sealer. Apply 522 Acrylic sealer using a short pile roller.
4. Apply the sealer at 100 microns (4mil) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.

New Concrete:

1. Allow new concrete to cure for a minimum of 21 days and treat to remove any surface laitance.
2. Check the moisture content of the concrete prior to coating (8% moisture content or below).
3. Lightly scarify the surface taking care not to expose the aggregate.
4. Clean all dust and debris from the surface.
5. The surface must be sealed using 522 Acrylic Sealer. Apply 522 Acrylic sealer using a short pile roller.
6. Apply the sealer at 100 microns (4mil) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.

B. Product Preparation

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 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 (5ltrs/20ltrs):

1. Transfer the contents of the Activator unit into the Base container.
2. Using an electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole of the material should be used within 90 minutes at 20°C (68°F).

D. Application

Brush or roller applications:

1. Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life).
2. Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material.
3. The stripe coat must be approximately 100mm (4") wide, at 75-100 microns (3-4mil) wet film thickness.
4. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the mixed product to all surfaces at 100 microns (4mil) wet film thickness.
5. Once the 1st coat has cured sufficiently, approximately 4 hours at 20°C (68°F), overcoat with the appropriate water based topcoat (16 hours for solvent free topcoats).

Quick Application Guide

Step 1

Ensure you have:
1 x base unit
1 x activator unit
1 x spatula
1 x slow speed drill & paddle
1 x brush
1 x short pile roller
1 x roller tray/container

Step 2

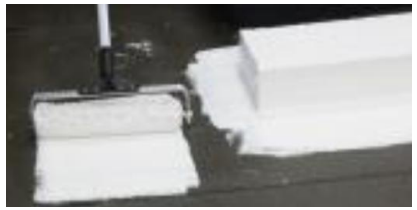
Open the activator tin and pour contents into the base unit.

Step 3

Mix the two components using the drill and paddle.

Step 4

To ensure the product is fully mixed check the material for any colour difference. The mixed material should be a consistent mix.



Step 5

Once the material is fully mixed pour into a roller tray or clean receptacle, and apply the product to the substrate using a paintbrush or short pile roller.

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