



## 520 Wall Coat UV

A high gloss, UV-stable, water based polyurethane wall coating. Provides hygienic protection, resisting MRSA, E. Coli, and other bacteria, while offering graffiti, chemical, and abrasion resistance for internal and external surfaces.

- UV-stable for long term colour retention
- Hygienic wall coating resists MRSA, E. Coli, and other bacteria
- High gloss finish with graffiti resistance
- Flexible and hard wearing for durability in high traffic areas

**2025 Product Sheet**



# Typical Applications

520 Wall Coating is a high performance, UV-stable polyurethane coating designed for internal and external wall surfaces. Its water based formulation ensures low odour and safe application, while providing long term weather resistance. The high gloss finish offers graffiti resistance, as well as protection against chemicals and abrasion.

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

# Cure times

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

# Characteristics

## Appearance

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

## Solids Content

50%

## Volume Capacity

813cc/kg

## Sag Resistance

Nil at 150microns

## Density

Base	1.27
Activator	1.10
Mixed	1.23

## Mixing Ratio

By weight	4:1
By volume	3:5

## Storage Life

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

# Coverage

4.5ltrs (1.2 US Gallon) of fully mixed product will give the following coverage rates:  
45m² at 100 microns                      482ft² 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

### Impact Resistance

Tested to BS 2782  
0.9kg load at 45cm

### UV Resistance

Tested to G53  
500 hours no change

### Humidity Resistance

Tested to ASTM BS3900  
5000 hours unaffected

### Mould Resistance

Excellent

### Bacteria Resistance

Excellent

### Adhesion

Concrete Pull off Adhesion to  
ASTM D4541 -17  
35kg/cm<sup>2</sup> (500psi) - Cohesive  
failure of concrete

### Heat Resistance

Maximum intermittent wet  
temperature resistance  
70°C (158°F)  
Resistant to dry heat  
200°C (392°F)

### Bacteria Resistance

Excellent

### Scratch Resistance

Tested to ASTM BS3900  
No failure 2.5kg load

## Details & Legal

### Chemical Resistance

Suitable for intermittent contact  
with caustic based cleaning  
solutions up to 80°C (176°F).

### Food Contact

USDA compliant for incidental  
food contact.

*Title 21, Food and Drugs, Chapter I,  
U.S. Code of Federal Regulations,  
FDA, Subchapter B – Food for  
Human Consumption, Section  
175.300 (Resinous and Polymeric  
Coatings).*

### 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:  
4.5ltrs (1.2 US Gallon)

# Application Guide

## A. Surface Preparation

### Previously coated & non-porous substrates:

- 1 Ensure any existing coating is tightly adhered.
- 2 Clean with warm detergent or pressure wash.
- 3 Lightly abrade the surface with medium grade abrasive paper.
- 4 Remove all dust from the surface.
- 5 521 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

### 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 50-75 microns (2-3mil) WFT. Once cured the sealed surface must have a uniform finish, any dull patches need to be overcoated.
- 4 Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of 521 GP epoxy primer.
- 5 521 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

### 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.
- 3 Clean all dust and debris from the surface.
- 4 The surface must be sealed using 522 Acrylic Sealer. Apply 522 Acrylic sealer using a short pile roller.
- 5 Apply the sealer at 50–75 microns (2–3mil) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.
- 6 Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of 521 GP epoxy primer.
- 7 521 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

#### 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 (4mils) WFT. Once cured the surface of the concrete must have a uniform finish, any dull patches need to be overcoated.
- 7 Once the sealer has cured, approximately 2 hours at 20°C (68°F), prime all surfaces with 2 coats of 521 GP epoxy primer.
- 8 521 GP epoxy primer must be applied using medium pile rollers at a wet film thickness of 100 microns (4mil).

## 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 full unit of material (4.5ltrs):**

- 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

**Rush 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 100 microns (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), apply a 2nd coat of material at 100 microns (4mil) wet film thickness.

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

## Quick Application Guide



### Step 1

Ensure you have:

- 1 x base unit
- 1 x activator unit
- 1 x spatula
- 1 x brush
- 1 x short pile or foam roller
- 1 x slow speed drill and paddle



### Step 2

Open the activator tin and pour contents into the base unit. Mix the two components using the drill and paddle.



### Step 3

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



### Step 4

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 roller.



### Step 5

Allow to cure and repeat the process for the 2nd coat.

## 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

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.

## Information & Enquiries

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

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