

RESICHEM 520 WALL COAT UV – water based polyurethane wall coating

Resichem 520 Wall Coating UV is a high performance UV stable water based coating designed for use on external and internal wall surfaces. The coating is based on a blend of water-borne acrylic and urethane polymers in combination with colour stable chemical resistant pigments to provide a coating which offers outstanding weather, chemical and abrasion resistance together with excellent gloss, graffiti resistance and colour stability.

- UV stable
- Graffiti resistant
- Flexible and hard wearing

Typical applications

Factory Walls	Police cells	Hospital Walls	Laboratories
External surfaces	Warehouses	Food factories	Offices

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 primed with Resichem 521 GP epoxy primer, applied at 100 microns (4mil) WFT.

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 Resichem 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 Resichem 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 Resichem 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 Resichem 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).

Plasterboard

1. Ensure the plasterboard surface is dry and free from contaminants
2. The surface must be sealed using Resichem 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 Resichem 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).

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

Once these 3 checks have been met, please proceed with mixing the product.

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).

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. The stripe coat must be approximately 100mm (4") wide, at 100 microns (4mil) wet film thickness.
3. 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.
4. 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.

Coverage Rates

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.

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	90 minutes
Touch dry	4 hours
Minimum overcoating time	4 hours
Maximum overcoating time	48 hours

Pack Sizes

This product is available in the following pack sizes –
4.5ltrs (1.2 US gallon)

Colour

Base component – White
Activator component – pale straw

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 4 hours at (20°C (68°F)).

Maximum - the over-coating time should not exceed 48 hours.

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

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

Other Technical Documents

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.