

RESICHEM 503 SPEP XL – low viscosity penetrating epoxy primer

Resichem 503 SPEP XL is a low viscosity solvent free epoxy primer with an extended usable life designed to seal and consolidate concrete and cementitious surfaces.

- Penetrates deep into the concrete surface
- Ensures high mechanical adhesion with Resimac overcoating systems
- Ideal for spray applications and warmer climates

Typical applications

Penetrating primer for concrete and cementitious surfaces such as, internal & external tanks surfaces, floors, structural concrete.

Surface Preparation

Existing Concrete

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrasive blast or scarify taking care not to expose the aggregate.
3. Clean all dust and debris from the surface

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

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 50 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 150 microns (6mil) 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 150 microns (6mil) wet film thickness.

Spray Applications

1. Spray application should be carried out by airless spray using a 60:1 ratio pump with an attached hot water pump to heat the spray lines.
2. The temperature around the spray lines should be kept around 25-35°C (77-95°F).
3. An input pressure of 60psi and a tip size of 0.025-0.03inches should be used.
4. Use as short a line as possible to maintain product temperature (maximum 8meters/ 26foot)
5. Circulate the product for a short time to achieve temperature equilibrium.
6. Apply the mixed product to all surfaces at 150 microns (6mil) wet film thickness.
7. It is essential that coated surfaces are back rolled using a medium pile roller to ensure the primer penetrates into the substrate.

Coverage Rates

4ltrs (1.1 US gallon) of fully mixed product will give the following coverage rates –
26.6m² at 150 microns 286ft² at 6mil
18ltrs (4.75 US gallon) of fully mixed product will give the following coverage rates –
119m² at 150 microns 1280ft² at 6mil

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	50 minutes
Minimum overcoating time	8 hours
Maximum overcoating time	36 hours

Pack Sizes

This product is available in the following pack sizes –
4ltrs (1.1 US Gallon), 18ltrs (4.75 US Gallons).

Colour

Base component – Pale Straw
Activator component – Amber

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 8 hours at 20°C (68°F).

Maximum - the over-coating time should not exceed 36 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

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

Other Technical Documents

Quick Application Guide	-	Brush or roller applications
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.