

## RESICHEM 503 SPEP

Resichem 503 SPEP is a low viscosity epoxy primer designed to seal concrete and cementitious surfaces. On curing the primer consolidates the surface and ensures excellent adhesion of other coating systems.

### Typical applications

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

### Characteristics

#### Appearance

Base:	Low viscosity pale straw liquid
Activator:	Amber liquid
Mixed:	Low viscosity pale straw liquid

#### Mixing Ratio

By weight:	2.24:1
By volume:	2:1

#### Density

Base:	1.12
Activator:	1.00
Mixed:	1.08

#### Solids content

100%

#### Sag Resistance

Nil at 150 microns

#### Coverage

Brush, roller or spray applications:

The material should be applied in at a target wet film thickness of 150 microns.

At 150 microns Resichem 503 SPEP will have a theoretical coverage rate of 6.66m<sup>2</sup> per ltr per coat.

Once cured the coated surface must have a semi gloss finish where there are signs of excessive porosity in the surface, the coating will have a dull finish. In such circumstances or where pinhole and weak spots are evident a second coat will be required.

#### Cure Times

The applied material should be allowed to harden for the times indicated below before being subjected to the conditions indicated:

#### Usable life

10°C	50 minutes
20°C	25 minutes
30°C	12.5 minutes
40°C	6 minutes

#### Minimum overcoating time

10°C	6 hours
20°C	3 hours
30°C	1.5 hours
40°C	45 minutes

#### Maximum overcoating time

10°C	72 hours
20°C	36 hours
30°C	18 hours
40°C	9 hours

#### Storage life

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

### Mechanical Properties

#### Compressive strength

Tested to ASTM D 695  
629kg/cm<sup>2</sup> (8945psi)

#### Flexural Strength

Tested to ASTM D790  
371kg/cm<sup>2</sup> (5275psi)

#### Hardness

Shore D to ASTM D2240  
84

#### Pull off adhesion

Elcometer pull off adhesion tester

##### Dry 525psi

(cohesive in substrate)  
37kg/cm<sup>2</sup>

##### Wet 475psi

(cohesive in substrate)  
33.4 kg/cm<sup>2</sup>

#### Tensile Shear

Tested to ASTM D1002

On abrasive blasted mild steel with 75 micron profile  
201 kg/cm<sup>2</sup> (2860 psi)

On rusted steel

167 kg/cm<sup>2</sup> (2375 psi)

#### Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C. Resistant to dry heat up to 150°C dependent on load.

## 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 the Technical Data Sheet for the material.

## Health and 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 the detailed Material Safety Data Sheet

**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.