

RESICHEM 590 EPOXY FC – high build solvent free epoxy floor coating

Resichem 590 Epoxy FC is a two pack solvent free epoxy floor coating system which provides protection and decorative properties to concrete and other substrates. The material is supplied as a two pack system comprising pre-weighed amounts of base and activator. After mixing together a hard wearing gloss finish epoxy coating is produced.

- Solvent free epoxy
- Hard wearing floor coating with a gloss finish
- Apply by brush or roller

Typical applications

Factory floors	Warehouse floors	Food preparation areas	Brewery floors
Laboratories	Ramps	Walkways	

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 clean or scarify taking care not to expose the aggregate.

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.

Prime all surfaces

1. Ensure all concrete surfaces are primed prior to applying 590 Epoxy FC.
2. Apply Resichem 503 SPEP low viscosity epoxy primer to the surface using brush or roller.
3. Apply 503 SPEP at a wet film thickness of 150 microns (6mil).
4. Leave to cure for a minimum 3 hours at 20°C (68°F).

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 45 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 200 microns (8mil) wet film thickness.
3. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the 1st coat of mixed product to all surfaces at 250 microns (10mil) wet film thickness.
4. Once the 1st coat of material has cured sufficiently, approximately 12 hours at 20°C (68°F), apply a 2nd coat of material to all surfaces at 250 microns (10mil) wet film thickness

Coverage Rates

18ltr (4.75 US Gallon) of fully mixed product will give the following coverage rates –
72m² at 250 microns 775ft² at 10mil
4.5ltr (1.18 US Gallon) of fully mixed product will give the following coverage rates –
18m² at 250 microns 194ft² at 10mil

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	45 minutes
Minimum overcoating time	16 hours
Maximum overcoating time	48 hours
Chemical contact	7 days

Pack Sizes

This product is available in the following pack sizes –
18ltr (4.75 US Gallon)
4.5ltr (1.18 US Gallon)

Colour

Base component – Light grey, dark grey, black, red, blue, green
Activator component – Amber

Over-coating times

Minimum - the material can be over-coated as soon as foot trafficable, approximately 16 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

5 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
Product Quick Application Guide	-	Mixing and application 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.

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