RESICHEM 591 EPOXY SL

Resichem 591 Epoxy SL is an epoxy resin based solvent free high build self-leveller. The product has been designed to be poured onto uneven concrete surfaces and squeegeed to a wet film thickness of 2-4mm (1/16”- 1/8”). On curing the product will ensure any imperfections on the surface of the concrete are reduced.

Typical applications

Ideal for coating concrete floors, problematic cementitious surfaces in warehouses, offices and laboratories.

Surface Preparation

Remove any contamination and lightly abrasive blast or scarify the concrete surface taking care not to expose the aggregate. Allow new concrete to cure for a minimum 21 days and remove any surface laitance before coating.

Power floated concrete – use a vacuum assisted shot blaster or floor grinder to remove weak laitence and provide a surface key for the coating.

Loose paint or rust – remove using a vacuum assisted shot blaster or floor grinder or equivalent method.

Loose or friable concrete – use a vacuum assisted shot blaster or floor grinder.

Oil or grease – use hot compressed air for large areas of contamination. Smaller, isolated deposits may be chemically cleaned with a standard degreaser product.

Mixing and Appliction

Open the 20ltr container, the contents should be as follows –
1 x 591 Epoxy SL 4ltr unit (1 US gallon)
1 x 10kg bag of natural aggregate (22lb)

Pour the RESICHEM 591 Epoxy SL Activator into the RESICHEM 591 Epoxy SL Base container and mix using an electric paddle.
Ensure all of the material is thoroughly mixed and streak free, pay attention to the sides and bottom of the container.

Once mixed, pour the contents of the mixed product into the 20ltr (5 US gallon) metal pail provided.

Using an electric mixing paddle stir the resin mix and add half of the aggregate. After a couple of minutes of mixing add the remaining aggregate.

Please ensure you pay attention to the bottom and sides of the container.

WARNING:

In colder climates or when the product is being applied to concrete surfaces lower than 12°C (50°F), add 75% of the aggregate and check the consistency of the mix. Colder temperatures will thicken the resin and therefore less aggregate is required to create a self-levelling product. Just add part of the remaining 25% of aggregate to create the correct level of consistency.

Once you have the correct consistency pour the contents of the 20ltr pail onto the floor and either spread the self-leveller with a notched trowel or rubber squeegee.
Once you have a layer of product approximately 2-4mm (1/16”- 1/8”) thick spike roll the surface to ensure any entrapped air is released from product.

Coverage Rates

The practical coverage rate for a 15kg (33lb) pack of self-leveller is as follows –

1mm wet film thickness	7.5m² per pack	40mil wet film thickness	80ft²
2mm wet film thickness	3.75m² per pack	80mil wet film thickness	40ft²
3mm wet film thickness	2.5m² per pack	120mil wet film thickness	27ft²
4mm wet film thickness	1.875m²per pack	160mil wet film thickness	20ft²

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
Hard Dry	8 hours
Minimum overcoating	8 hours
Light loading	12 hours
Maximum overcoating	24 hours
Full loading	3 days

Colour

Mixed material – Amber

Over-coating times

Minimum - the applied material can be over-coated as soon as it is touch dry.
Maximum - the over-coating time should not exceed 24 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/ 60-86F°)

Health and Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

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