

Renfloor SL 5000

Description:

Renfloor SL 5000 a high quality high build self-smoothing two component solvent free epoxy mixed with Silica Sand coating for application to new and existing concrete & metal floors. It provides smooth, easily cleaned surfaces which is resistant to dirt, moisture, oil, and light-medium abrasion and chemical attack and have the property of self-leveling.

Recommended use:

As an easy heavy duty coating which has a wide range of application uses ranging from light industrial areas to floors requiring long lasting protection from abrasion and heavy loads such as Warehouses, Garages , Dairies , Factories ,Laboratories, Aircraft hangars, Plant rooms, Food manufacturing plants and car parks. When used in conjunction with the appropriate slip resistant. Renfloor SL 5000 is suitable for use in wet areas where strict levels of hygiene and cleanliness are required or where chemicals are manufactured, spilled or is an integral part of the process.

PHYSICAL CONSTANTS:

Shade /Colors:	RAL Color Card
Finish:	High Gloss
Volume solids %:	100 %
Solids by weight (%):	100 %
Theoretical spreading rate:	0.5 m ² /ltr (2000 micron DFT "2mm")
Recommended DFT:	The thickness of the coating depend on the specification of the customer and the product is designed to achieve 7 mm thickness
Flash point:	130 ° C. /266 °F
Specific gravity:	1.53 kg/liter (mixed) (± 0,05)
VOC :	5 g/ltr
Surface dry:	1 - 2 approx. hour(s) 20°C/68°F
Dry to touch:	2 - 4 hour(s) 20°C/68°F
Hard Dry:	6 -8 hour(s) 20°C/68°F
Fully cured:	7 days 20°C/68°F

APPLICATION DETAILS:

Mixing ratio:

BASE : CURING AGENT

3 : 1 (by volume)

4 : 1 (by Weight)

Application method:

Airless spray / Brush and roll / Metal Trowel.

Thinner (max.vol.):

Not recommended to add any thinner.

Thinner Name

Not recommended to add any thinner.

Pot life:

2 approx. hour(s) 20°C/68°F

SURFACE PREPARATION:

New Concrete: Remove laitance by power grinding, vacuum grit blasting or hydrochloric acid etching. Choose the method best suited for the premises. After grinding remove dust carefully with a vacuum cleaner. Hydrochloric acid etching is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse with plenty of water. Dry the floor.

Maintenance (old Concrete): Remove all grease, oil, chemicals and other impurities by detergent washing. Remove old peeling paint layer by grinding, milling or vacuum grit blasting. Choose the method best suited for the premises. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.

Priming: Prime using Renfloor CL 100, Renfloor CL 110 , Renfloor CL 101 or Renfloor CL 200. Pour the varnish onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat priming to get a non-porous surface. Subsequent treatment can be carried out after 2 hours using "wet-on-wet" technique. A porous priming coat will result in holes and air bubbles in the finished screed. Scatter sand of grain size Ø 0, 1-0, 6 mm on the fresh primer coat to ensure the screed adhesion and prohibit gliding of the screed. Remove loose sand with vacuum cleaner before coating with Renfloor SL 5000.

PRECEDING COAT:

For Dry Concrete use Renfloor CL 100 or Renfloor CL 110 or Renfloor CL 101

For Wet or damp Concrete use Renfloor CL 200

For metal Surfaces use Renpox 642

Please refer to the data sheets mentioned above for application details.

Patching:

Patch pot-holes and cracks with Renfloor CL 110 and dry, clean sand. Mixing ratio e.g. 1 part by volume of epoxy mixture and 2 parts by volume of sand of grain size \emptyset 0.1–0.6 mm. Grind the patched areas before over coating.

Coating:

Over coating may be carried out not earlier than 16 hrs. And not later than 24 hrs. After priming and patching. If the primed surface is not over coated within 24 hrs. It should be abraded. Pour the coating mixture onto the floor and spread it with a serrated steel trowel or an adjustable trowel. Control that the thickness of layer is correct by observing coating consumption and by measuring the film thickness. Level the screed with a spiked roller approx. 10–20 min after application. Spiked roller helps removing air bubbles from the coating.

Metal surfaces:

According to kind of metal surface applied the surface preparation change and for that please refer to the metal primer surface preparation and then after the application of primer the product can be applied in the same way over the concrete surfaces

Weathering:

The natural tendency of epoxy coatings to chalk in outdoor exposure.

Mixing:

Stir the base and hardener components prior to mixing. The Base should be mix thoroughly using a low speed electric drill and suitable spiral mixer for 1 minute. Add hardener component and mix for a further 3 minutes. To maximize pot life pour mixed components into a tray before application.

Pot life:

Working time of epoxy systems decreases when ambient temperature rises.

Moisture:

epoxy layers should be protected from moisture for 4-6 hours after application. Moisture may whiten the surface or/and make it sticky. It may also disturb hardening. Faded or sticky layers in parts of the surface should be removed by grinding or milling and laid again.

**APPLICATION
CONDITIONS:**

Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces, provide adequate ventilation during application and drying.

Safety:

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, follow all local or national safety regulations

Renfloor SL 5000 for professional use only.