

Renfloor SL 1000

Description: **Renfloor SL 1000** a high quality self-leveling Flow applied three component 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.

Recommended use: The product is designed for use in wide range of industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic and easy to clean. Such as clean rooms, laboratories, kitchens, plant rooms and Light industrial plants.

PHYSICAL CONSTANTS:

Shade /Colors:	RAL Color Card
Finish:	Gloss
Volume solids %:	100 %
Solids by weight (%):	100 %
Theoretical spreading rate:	1 m ² /ltr (1 mm thickness)
Recommended DFT:	The thickness of the coating depend on the specification of the customer and the product is designed to achieve between 0.5 – 1.5 mm thickness
Flash point:	71 °C. /159.8 °F.
Specific gravity:	1.65 kg/liter (± 0,05)
Surface dry:	3-4 approx. hour(s) 20°C/68°F
Dry to touch:	6-8 hour(s) 20°C/68°F
Hard Dry:	24 hour(s) 20°C/68°F
Fully cured:	7 days 20°C/68°F

APPLICATION DETAILS:

Mixing ratio:	BASE	CURING AGENT + fillers
	4.6	2 : 9.4 (by weight)
Application method:	Flow application	
Thinner (max.vol.):	Not Recommended	
Pot life	2 hour(s) 20°C/68°F	

Safety:

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

- 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**. 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 1000.
- Patching:** Patch pot-holes and cracks with Renfloor CL 100 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 Ø 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
- 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.
- PRECEDING COAT:** For Concrete surfaces **Renfloor CL 100** or **Renfloor CL 200** and for metal surface suitable epoxy primer should be used according to surface condition and kind of metal surface.

REMARKS:

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 Then add the fillers and continue in mixing for 2 minutes . 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.

Weathering:

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

Renfloor SL 1000 is for professional use only