SOLIDFLOW SL 2000

Solvent Free 2 - 3 mm Self Smoothing Epoxy Floor System

Solidflow SL 2000 is a three component, solvent-free, self-levelling epoxy system applied at a nominal thickness of 2 mm. Solidflow SL 2000 exhibits superior abrasion and chemical resistance on concrete floors and creates a hygienic, smooth finish ideal for dry process areas in the food, beverage and pharmaceutical industries.

BENEFITS:

- *Seamless, easy to clean and maintain. Hygienic environment.*
- *High chemical resistance.*
- *Hard wearing floor finish.*
- *High abrasion resistance.*
- *Non-dusting.*
- *Rapid installation.*

TECHNICAL DETAILS

Compressive Strength	> 55 MPa	BS6319
Tensile Strength	> 15 MPa	
Flexural Strength	> 30 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Profile	Smooth	
Finish	Gloss	
Colours	Various, RAL	
Application Temperature	15 - 28 °C	
Service Temperature	60 °C max (dry)	
Dry Film Thickness	2 mm system	
Solids Content	100%	
Touch Dry	10 - 12 hours	
Hard Dry	24 hours	
Full Cure	7 days	
Pot-Life	30 min @ 20 °C	
Yield	24 L	
Coverage	12 m^2 per kit @ 2 mm 8 m^2 per kit @ 3 mm	
Toxicity: Taint free to sensitive food consumables.		

PACKAGING

Solidflow SL 2000 is supplied in pre-packed kits consisting of three parts including Part A (resin), Part B (activator) and Part C (powder) proding a total yield of 24 L per kit.

'Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch. UV exposure causes yellowing, most prominent in light colours.

APPLICATIONS:

- Factory and warehouse floors.
- Laboratories.
- Electronic (Clean rooms).
- Automotive.
- Aerospace (Hangars).
- Medium to heavy duty traffic environments where durability is required.

SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. The moisture content should be less than 5% and free from rising damp. The surface finish of the concrete should be class 2 (AS 3610).

Note: Any filling of blowholes/voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

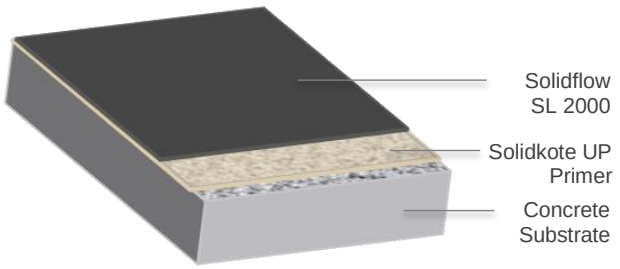
PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

PRIMING

Prime the area with Solidkote UP Primer and allow to cure for at least 8 hours prior to application of Solidflow SL 2000, with a maximum over coating time of 18 hours . The primer must show a visibly complete seal of the substrate or apply another coat of primer.

Note: The substrate should be dry to 75% RH (BS8204) and free from rising damp or ground water pressure. Damp floors should primed with **Solidkote STP Primer**.



INSTALLATION:

Ensure application conditions of 15 to 28°C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

Mix Part A (resin) thoroughly with a mechanical mixer.

Add the complete contents of the Part B (activator) container into the Part A container and mix well to a uniform colour using a mechanical mixer. Ensure the mixing paddle scrapes the sides of the mixing vessel.

Then slowly add the Part C (powder) to the mix and mix well for at least three minutes. The mix should not be kept in the container as it will start to cure rapidly.

Placing

Pour out the mix onto the demarcated area in a long ribbon and spread the mix using a 6 mm notched trowel or rake for a 2 mm finish or a 8 mm notched rake for a 3 mm finish then smooth off with the flat edge of the trowel.

Allow to self-degas for 3 minutes and then spike roll the surface to remove any entrapped air. Spike roll again at 5 - 8 minutes to ensure sufficient removal of bubbles. Ensure that the spike roller is rolled in a uniform direction.

The total time of mixing and placing should be 10 to 15 minutes. Once the first mix has been placed, the following mixes should follow one after the other until the entire floor is completely coated in one operation. Doorways and separate rooms may be taped off and coated at another time. At this stage, do not spike rolled again as this can lead to slight colour variations. Ensure that airborne contamination does not settle on the surface during the curing period.

MAINTENANCE

Regular cleaning extends the service life of the Solidflow SL 2000 system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.