SOLIDFLOW SL 1000

Solvent-Free 1 mm Epoxy Floor System

Solidflow SL 1000 is a three component, solvent-free, self-levelling epoxy system applied at a nominal thickness of 1 mm.

Solidflow SL 1000 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.

UNIQUE PRODUCT BENEFITS

- Seamless, easy to clean and maintain. Hygienic environment.
- High chemical resistance.
- High abrasion resistance. Hard wearing floor finish.
- Rapid installation.
- Taint free to sensitive food consumables.
- Non-dusting.

TECHNICAL DETAILS

Compressive Strength	>55 MPa	BS6319
Tensile Strength	>25 MPa	
Flexural Strength	>35 MPa	
Concrete Adhesion	>1.5 MPa (Concrete failure)	ASTM D7234
Profile	Smooth	
Finish	Gloss	
Colours	Standard, RAL system	
Solids Content	100%	
Pot Life	30 minutes @ 20°C	
Foot Traffic	12 to 16 hrs	
Heavy Traffic	24 hrs	
Full Cure	7 Days	
Chemical Resistance	Refer to chemical chart	
Kit Yield	25 L	
Coverage @ 1 mm	25 m^2 per kit	
Application Temperature	15 to 28°C	
Service Temp	60°C Max Dry	

TECHNICAL DETAILS

Solidflow SL 1000 is supplied in pre-packed kits consisting of three parts including Part A (resin), Part B (activator) and Part C (powder) producing a total yield of 25 L.

PRODUCT COLOUR RANGE:

'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.

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

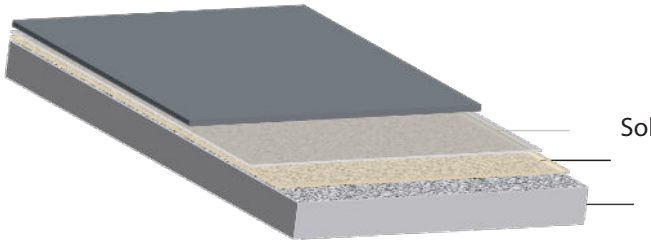
Western Cape +27 (0)21 535 4455 | **Eastern Cape** +27 (0)41 451 3944 | **Gauteng** +27 (0)11 822 7242 | **KwaZulu-Natal** +27 (0)31 705 7733

info@technicalfinishes.com • www.technicalfinishes.com

TECHNICAL FINISHES
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS

APPLICATIONS:

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



SPECIFICATION

Solidflow SL 1000 is a specialized system that must be installed by an approved applicator with documented quality assurance. Consult Technical Finishes SA for a list of approved applicators.

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

Ensure application conditions of 15 to 28°C and that the concrete moisture content is below 5%.

Prime the area with **Solidkote SBP** @ 6 to 8 m^2 / L. Follow with a scraper coat of Solidprime 321 @ 300 um and allow to cure for at least 6 to 8 hours prior to application of **Solidflow SL 1000**.

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 3 mm notched rake to obtain the correct coverage and smooth off with the flat edge of the trowel. A steel hand trowel may be used on the edges to assist with placing in smaller areas. Allow to self-degas for 3 minutes and then spike roll the surface to remove any entrapped air and to assist with levelling. 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 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 1000 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.