SOLIDFLOW IMPACT SL

Solvent Free 2 - 4 mm Poluyrethane Self Levelling System

Solidflow Impact SL is a solvent free, self-levelling, flexible, polyurethane floor screed system for concrete protection applied at a nominal 2 - 4 mm. Solidflow Impact SL exhibits excellent resistance to abrasion, chemical attack and other physical aggression, including elongation and impact resistance. The cured product has a rubber like feel under foot with excellent slip resistance and an attractive satin finish.

BENEFITS:

- *HACCP compliant.*
- *Flexible and comfortable under foot.*
- *Solvent free, non-tainting. Non-odour producing.*
- *Highly durable. Resistance to abrasion and impact.*
- *Low sensitivity to moisture.*
- *Resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, hydrocarbon solvents and ester solvents.*

TECHNICAL DETAILS

Compressive Strength	> 40 MPa	BS6319
Tensile Strength	> 10 MPa	
Flexural Strength	> 15 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Surface Hardness	65 (Shore D)	
Water Permeability	Nil	
Profile	Smooth	
Finish	Satin	
Colours	Various, RAL	
Application Conditions	5 - 30 °C Max 70% RH	
Service Temperature	60 °C max (dry)	
Dry Film Thickness	2 - 4 mm	
Pot-Life	15 - 20 min @ 20 °C	
Initial Film Set TIme	4 hours @ 20 °C	
Light Traffic	12 hours @ 20 °C	
Heavy Traffic	4 - 5 days	
Chemical Cure	4 - 5 days	
Full Cure	4 - 5 days @ 20 °C	
Yield	10 L	
Coverage	5 m^2 per kit @ 2 mm 2.5 m^2 per kit @ 4 mm	

PACKAGING

Solidflow Impact SL is supplied as a three component kit. All components are accurately weighed and attempting to split or half the kit on site is not condoned by Technical Finishes.

'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:

- Food preparation / wet areas.
- Brewing / dairy clean areas.
- Manufacturing / processing.
- Correction institutions.
- Refineries.
- Factories.
- Automotive.
- Aerospace.
- Electronic.
- Pharmaceutical.
- Warehousing.
- Kitchens.

SYSTEM DETAILS

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

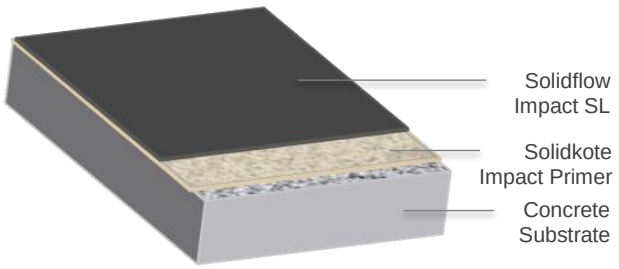
SUBSTRATE REQUIREMENTS

Substrate must be a concrete, grano or asphalt screed of Grade 2 evenness and a minimumof 20 MPa compressive strength and must have a tensile pull-off of 1.5 MPa or greater. Ensure substrate is fully dry to 70% RH (BS 8204) and free from rising damp or ground water pressure. Polyurethane systems are sensitive to excessive moisture. The storage, mixing and application conditions may affect the quality of the finish produced.

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

To be assured of maximum adhesion the correct surface preparation is essential. Removal of all weak, pre-existing coatings using diamond grinders, shot blasting or scarifiers to remove laitance. Remove all grease, oils, debris and contaminants with a suitable degreasing cleaner such as Liquid Action. It is preferable to vacuum the substrate dry to speed up surface drying after cleaning. Ensure that the substrate is fully dry; a moisture test is required.



PRIMING

Prime the surface with **Solidkote Impact Primer**. Ensure that the primer is of uniform thickness at 250 um. Where a matt finish is prevalent or blowholes are visible additional coats of primer should be applied until a uniform gloss finish is obtained. Apply the subsequent topcoat within 48 hours of previous coat. On rough, scarified surfaces apply primer and then apply a **scraper coat** of the **Solidflow Impact SL** to ensure a flat surface is obtained.

INSTALLATION:

Ensure application conditions of 5 to 30°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 to disperse pigments.

Decant the resin into a suitable mixing vessel. Scrape all the resin out. Add the complete contents of the Part B (activator) container into the Part A container and mix for 2 minutes. Slowly add the aggregate (slow additions) into the mixture until a uniform, lump free consistency is achieved. Mix again for 2 minutes.

Placing

Pour the entire mix onto the primed floor and spread using a 6 or 8 mm rake for a 2 or 3 mm thickness respectively. Spike roll to obtain a bubble free finish. Avoid spike rolling too much as this will result in an unsightly finish. Replace the gauge rake every 500 m² to ensure consistent thickness.

Allow the product to cure for 24 hours before light trafficking and a further 36 hours before heavy duty use.

MAINTENANCE

Regular cleaning extends the service life of the Solidflow Impact SL system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID). Damaged areas of this system should be patch-repaired or replaced in order to ensure longevity of the working area.

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.