

SOLIDFLOW IMPACT SL

SOLVENT FREE POLYURETHANE SELF LEVELING SYSTEM

DESCRIPTION

SOLIDFLOW IMPACT SL is a solvent free, self-levelling, flexible, polyurethane floor screed system applied at a nominal 2-4mm for concrete substrates. SOLIDFLOW IMPACT SL exhibits excellent resistance to abrasion, chemical attack and other physical aggression, including flexing / minor movement. The product also shows good slip resistance when wet and provides an attractive satin finish.



ADVANTAGES

- HACCP Compliant
- Flexible
- Solvent free, odourless
- Seamless satin finish
- High order of durability
- Resistance to abrasion, impact, chemical attack and penetration.
- Easy to clean finish
- Low sensitivity to moisture.
- Excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic hydrocarbon solvents and ester solvents.

TECHNICAL DETAILS

Application	Self-levelling
Profile	Smooth
Finish	Satin
Colours	Various
Application Conditions	5 – 30°C, max 70% RH
Service Temp	60°C max (dry)
Dry film thickness	2-4mm
Pot life	15-20 min at 20°C
Initial film set time	2 hours at 20°C
Light traffic	24 hours at 20°C
Heavy traffic	4-5 days
Chemical cure	4-5 days
Full cure	4-5 days at 20°C
Coverage	5m ² / kit @ 2mm
Bond Strength	>1.5 MPa (Failure in concrete)
Compressive strength	>55 N/mm ² (BS 6319)
Surface hardness	65 (Shore D)
Flexural strength	> 15N/mm ² (BS 6319)
Tensile strength	> 10N/mm ² (BS 6319)
Water permeability	Nil

APPLICATIONS

SOLIDFLOW IMPACT SL is ideally suited for areas subject to heavy duty use namely:

- Food preparation / wet areas
- Brewing / dairy clean areas
- Engineering and processing
- Refineries
- Factories
- Automotive
- Aerospace
- Electronic
- Pharmaceutical
- Warehousing
- Kitchens

SUBSTRATE REQUIREMENTS

Substrate must be a concrete, grano or asphalt screed of Grade 2 evenness and a minimum of 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.

SYSTEM DETAILS

SOLIDKOTE IMPACT PRIMER and SOLIDFLOW IMPACT SL

PACKAGING

SOLIDFLOW IMPACT SL is supplied as a three component 19.2 kg, 10L kit. All parts are accurately weighed and attempting to split or half the kit on site is not condoned by Technical Finishes.

DIRECTIONS

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.

To be assured of maximum adhesion properties the correct surface preparation is essential. Removal of all weak, pre-existing coatings is essential using suitable 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; where necessary a moisture test may be required.

PRIMING

Prime the surface with **Solidkote IMPACT primer**. Ensure that the primer is of uniform thickness at 150-200um. Where a matt finish is prevalent additional coats of primer should be

applied until a uniform gloss finish is obtained. Apply the subsequent topcoat within 48 hours.

MIXING

Mix the SOLIDFLOW IMPACT SL Resin alone to ensure a uniform mix, after which add the full contents of SOLIDFLOW IMPACT SL Hardener. Mix until a uniform consistency is obtained and then mix the aggregate (in slow portions) into the binder until a uniform and lump free mixture is achieved.

APPLICATION

Pour the contents onto the primed substrate before trowel or rake applying and spread at 2-3mm. A 6mm rake will achieve a 3mm thickness. Spike roll to obtain a bubble free finish. Avoid spike rolling too much as this will result in an unsightly finish.

Allow the product to cure for 24 hours before light trafficking and a further 36 hours before heavy duty use. Maintain the SOLIDFLOW IMPACT SL by regular scrubbing or mopping with LIQUID ACTION. This will ensure the system is kept in serviceable condition. Damaged areas of this system should be patch-repaired or replaced in order to ensure longevity of the working area.

HEALTH AND SAFETY

The system is non-hazardous to health and environment. Ensure correct personal protective equipment is worn at all times during application of the SOLIDFLOW IMPACT SL system. Avoid skin and eye contact during product mixing. Refer to the MSDS if necessary and or consult our technical manager for further information. Technical finishes products are guaranteed against defective materials and are sold subject to its standard Terms and Conditions of sale, copies of which can be obtained on request.