

LIQUID STONE SL

2-3 mm Decorative Resin Cement Flooring System



Liquid-Stone SL is a decorative resin cement based self-levelling flooring system with the hardness of natural stone. It offers a tough, durable and seamless floor finish that incorporates selected fillers and pigments to combine aesthetic appeal with function in commercial flooring environments.

It exhibits high abrasion and chemical resistance with a uniquely attractive minimalistic appeal.

UNIQUE PRODUCT BENEFITS

- Epoxy modified, decorative self-levelling screed
- Exceptional durability and impact resistance
- Colour stable
- Unmatched “colour movement” achievable
- Hard wearing and durable
- Rapid development of hardness

TECHNICAL DETAILS

Compressive Strength	> 40 MPa	BS6319
Tensile Strength	> 10 MPa	
Flexural Strength	> 40 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	1 kg > 1.8 m 2 kg > 1.5 m	ISO6272-1:2011
Hardness	80	Shore D
Slip Resistance	Dry >70 Wet >25	TRRL Pendulum Slip Test
Water Uptake (Permeability)	Nil	Karsten Test
Chemical Resistance	Refer to chemical chart	
Foot Traffic	12 to 18 hrs	
Heavy Traffic	24 hrs	
Kit Yield	12.7 L	
Coverage	4.2 m ² @ 3 mm	
Thermal Resistance	< 70°C	
Life Expectancy	5 to 10 years depending on traffic and maintenance	
Cleaning	Mild detergent and water	

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 yellowing is more prominent in light colours yet does not affect performance.

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

Distribution facilities nationwide

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TECHNICAL FINISHES
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS



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APPLICATIONS:

- Commercial areas
- Offices & Receptions
- Retail Shop Floors
- Automotive showrooms
- Public buildings & facilities
- Schools, educational facilities
- Stadiums & studios
- Hospitality front of house areas

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.

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. Tiled surfaces must be grinded to remove glazing. Check for sound tile bonding. Apply a scraper primer of **Solidprime 321** to fill in grout lines to level the surface.

PRIMING

Ensure application conditions of 15 to 28°C.

If the substrate moisture content is:

Less than 5% Prime with either:
Solidprime 321 (Broadcast Scatter sand
Fine into wet primer at 0.3 to 0.5 kg / m²)

Greater than 5% Prime with Solidkote STP Primer.

Floors with holes and divots will require a scraper coat. Broadcast Scatter Sand #1 at 300 g / m² into the wet primer / scraper coat to create a surface key. Allow primer to cure for at least 16 hours prior to application of Liquid-Stone SL with a maximum over coating time of 48 hours.

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.

Remove all excess unbonded scatter sand by sweeping and vacuum thoroughly. Ensure all windows and doors are taped shut to prevent air flow during application. Switch off all air-conditioning for duration of application. Clean all tools with Solidkote 505 Epoxy Thinners after use.

Mixing

Add the full contents of the Liquid-Stone SL resin (4L) component to the mixing bucket.

Add the full contents of the Liquid-Stone SL activator (1L) to the resin component and mix for 1 minute while moving the mixer around the bucket until a white uniform mix is obtained.

Add the contents of the Liquid-Stone SL aggregate (18Kg) to the mixed liquids slowly and mix until homogenous and uniformly smooth with no lumps.

Scrape the sides of the mixing bucket and mix for a further minute.

Do not allow mixed material to stand in the bucket as it will begin to settle, react quickly and become unworkable.

Placing

Pour the mixed material out onto the demarcated area in a long ribbon along the wall. Using a 10 mm notch rake for 8 mm rake for 3 mm thick, begin to rake the material out at desired thickness. Allow to settle while preparing the next mixture and repeating the process to join the next mix with the previous. Then with a steel pool trowel smooth and flatten rakes lines to even out the surface and to join subsequent mixes seamlessly. With the aid of spike shoes, gently spike roll the surface after 3-5 minutes after each mix with a **Stainless Steel Spike Roller** to achieve a bubble free surface and allow to cure overnight.

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SEALING

The cured Liquid-Stone SL requires a finishing topcoat for best results.

Apply two coats of Solidkote UVC Clear Gloss / Clear Matt at 10 m² / L per coat with a quality, lint free roller.

For further durability, an additional coat of Solidkote UV Satin can be applied at 10 m² / L. This will result in a natural satin clear finish.

MAINTENANCE

Regular cleaning extends the service life of the Liquid-Stone SL 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 OHS Act 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.

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