

SOLIDFLOW LIQUID STONE

Decorative Resin-Based Flooring System With The Look And Feel Of Natural Polished Marble

Liquid Stone is a decorative resin-based flooring system with the look and feel of natural polished marble. It offers a tough, durable and seamless floor finish that incorporates selected metallic fillers to combine aesthetic appeal with function in demanding flooring environments. It exhibits high abrasion and chemical resistance with a uniquely attractive appeal.



BENEFITS:



High chemical resistance.



Abrasion resistant. Improved flexibility. Thermal shock stability.



Colourful and attractive. Unique & Decorative. Enhances any environment. Endless base colour options.



Easy application. Easy to maintain.

TECHNICAL DETAILS

Compressive Strength	>50 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
Foot Traffic	12 to 18 hrs	
Heavy Traffic	24 hrs	
Chemical Resistance	Refer to chemical chart	
Kit Yield	6 L	
Coverage	3 m ² @ 2 mm	
Thermal Resistance	<70 °C	
Life Expectancy	5 - 10 years depending on traffic & maintenance	
Cleaning	Mild detergent & water	



Slate



Ice



Arctic



Sand



Terra



Marble

*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.

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Page 1 of 3

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APPLICATIONS:

- Commercial flooring
- 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.

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, 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 coat of Solidkote UP Primer + SL 1000 Filler applied to fill in grout lines and level the surface.

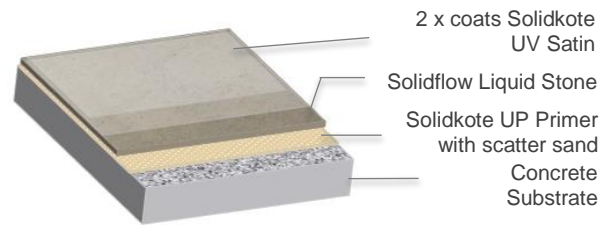
PRIMING

Ensure application conditions of 15 to 28°C.

If the substrate moisture content is:

Less than 5%	Prime with either: Solidkote UP Primer (Broadcast 0.6 to 1.2 mm sand into wet primer at 0.5 to 1.0 kg/m ²), or Solidkote STP Primer.
Greater than 5%	Prime with Solidkote UP 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 Solidflow Liquid Stone 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. Remove all excess unbonded scatter sand #1 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. Installation should not be attempted unless application team is fully trained.

Mixing

Add the full contents of the Solidflow Liquid Stone resin component to the mixing bucket and scrape the sides out.

Add the full contents of the Solidflow Liquid Stone activator to the resin component and mix for 1 minute while moving the mixer around the bucket.

Scrape the sides of the mixing bucket and mix for a further minute to ensure a uniform mixture is obtained.

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

Placing

Pour the mixed material out onto the demarcated area in a long ribbon along the wall. Using a 5 mm notch rake, begin to rake the material out at 2.0 mm. Allow to settle while preparing the next mixture and repeating the process to join the next mix with the previous. With the aid of spike shoes, gently spike roll the surface about 10 minutes after each mix to achieve a bubble free surface and allow to cure overnight.

SEALING

Solidflow Liquid Stone requires a finishing topcoat of Solidkote UV Satin applied at 10 m² / L in a two-coat application with a quality, lint free roller. This will result in a satin clear finish with enhanced longevity.

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MAINTENANCE

Regular cleaning extends the service life of the Solidflow Liquid Stone system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID). Please refer to full cleaning regime for Polyscreed polyurethane flooring systems.

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.

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