

LIQUID-STONE

Luxurious Resin Flooring System



Liquid-Stone is a decorative, contemporary seamless resin flooring system designed to be at the forefront of interior design with style and flexibility.

Combined with strength, durability and comfort under foot, this water based, self-levelling resin flooring system provides a high performance, luxurious, finish with the look and feel of velvet. The cured product exhibits high resistance to chemicals, abrasion and is flexible enough to withstand high traffic. Ideally suited for interior floors found in residential, semi-commercial and upmarket flooring spaces.

UNIQUE PRODUCT BENEFITS

- Seamless resin-based system.
- Water based & environmentally friendly.
- Low odour and VOC compliant.
- Substrate versatility.
- Warm and comfortable under foot.
- Excellent impact and abrasion resistance.
- Excellent chemical resistance.
- Various colour options – tint to desired colour.

*Product colours may differ from the ones shown on the right. 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 manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

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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
VOC	< 10 g / L	
Cure Time	8 hrs	
Foot Traffic	12 hrs	
Heavy Traffic	24 hrs	
Kit Yield	8 L	
Working Time	25 min. @ 20°C	
Coverage	16m ² /kit @ 0.5mm (scraper coat) 8m ² /kit @ 1mm (top coat)	
Life Expectancy	5 to 10 years depending on traffic and maintenance	
Cleaning	Mild detergent and water	

PACKAGING

2 Part, 6 L Base and 2 L Activator

PRODUCT COLOUR RANGE:



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APPLICATIONS:

- Residential floors
- 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: It is important that the **Liquid Stone** system is applied onto a smooth even surface to achieve a high-quality, smooth finish.

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.

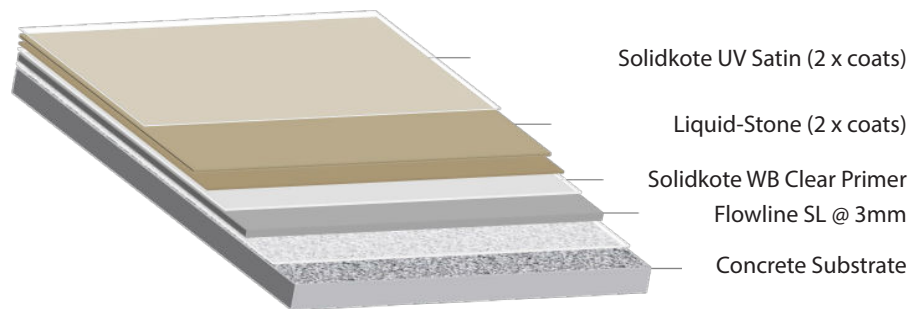
Ensure all windows and doors are taped shut to prevent air flow during application. Switch off all air-conditioning for duration of application. Clean all tools with warm soapy water after application. If product has cured, remove mechanically or with **Solveklean WSBC**.

SUBSTRATE LEVELLING

Application of underlayment over an uneven screed

Prime the concrete with **Techfin Probond** at 6 – 8m² per litre. If the screed is very porous, it is recommended to apply two coats of **Techfin Probond**.

Allow the primer to cure for 30 – 60 minutes and apply **Flowline SL** self-levelling underlayment screed at 3mm using an 8mm rake, trowel and spike roll. Allow the self-levelling screed to cure overnight.



Lightly sand the **Flowline SL** screed with a rotary floor polisher and 80-grit paper or diamond pads. Remove the dust by thoroughly vacuuming the surface.

Prime the surface with **Solidkote WB Clear** primer at 8m² / L using a medium pile mohair roller. Allow primer to cure until tack free for 2 - 4 hours depending on temperature or humidity.

**** If the screed is of good quality and even, the underlayment can be eliminated, however a primer scraper coat of **Solidprime 321** is recommended at 3m² / L. This must be fully blinded with fine AFS 55 sand.*

Proceed with **Liquid-Stone** top coats as per instructions below.

Application over tiles

Ensure all tiles are fully bonded and secure. Any loose or hollow tiles need to be removed and the area filled with **Smooth & Patch**. Completely deglaze the tile surface using a hand-held diamond cup grinder or diamond grinder.

Apply a scraper coat of **Solidprime 321** and fully blind the surface with fine AFS 55 sand at approximately 1 kg / m² to fill in grout lines. Allow scraper coat to cure for 8 hours.

Apply **Flowline SL** self-levelling underlayment screed at 3mm using an 8mm rake. Allow the self-levelling screed to cure overnight.

Lightly sand with a rotary floor polisher and 80-grit paper or diamond pads. Remove the dust by thoroughly vacuuming the surface.

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Prime the surface with **Solidkote WB Clear** primer at 8m² / L using a medium pile mohair roller. Allow primer to cure until tack free for 2 - 4 hours depending on temperature or humidity.

Apply **Liquid-Stone** top coats as per instructions below.

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

With the use of a mechanical mortar mixer on low speed, premix the **Liquid-Stone Base** (6 L) of every kit to be installed, to ensure colour uniformity and a homogenous consistency without settlement.

Add the full contents of the **Liquid-Stone Activator** (2 L) component to the base and mix for 2 minutes while moving the mixer around the bucket until a uniform mix is obtained. Scrape the sides of the mixing bucket with a scraper and mix again for another minute.

NB: Move mixed material to the application area immediately. Do not allow mixed material to stand in the bucket longer than necessary. The working life of the material is 20 minutes on the floor while greatly shortened while in the bucket.

Placing

Apply a scraper coat of **Liquid-Stone** at 0.5mm. Allow to cure for at least 4 to 6 hours prior to application of **Liquid-Stone** finishing coat with a maximum over coating time of 18 to 36 hours.

Apply the **Liquid-Stone** finishing coat by pouring the mixed material out onto the demarcated area in a long ribbon along the wall. Spread the material evenly using a flat steel pool trowel and work the material to a thickness of 1mm. At this point the next kit should be mixed and placed into the previous mix seamlessly repeating the process in one operation until the floor is complete.

Along the edges and perimeters, use a smaller steel trowel to assist with placing material into gaps and allow to cure overnight.

SEALING

The cured **Liquid-Stone** is inherently sealed throughout the system but for added durability and dirt resistance a finishing sealer of **Solidkote UV Satin** is recommended and can be further maintained with **Ultimate 21** polish from time to time for best results.

Sealing specifications include:

Solidkote UV Satin applied at 10 m² / L in a two-coat application ensuring to cross-hatch the rolling process with a quality, lint free roller. This will result in a natural satin clear finish with enhanced longevity.

MAINTENANCE

Regular cleaning extends the service life of the 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).

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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