

SOLIDFLOW QUARTZ

Decorative 2 mm Epoxy Floor System



Solidflow Quartz is a decorative, solvent-free, self-levelling epoxy system applied at a nominal thickness of 2 mm.

Solidflow Quartz exhibits a speckled quartz finish with superior abrasion and chemical resistance on concrete floors and creates a hygienic, smooth and attractive finish.

UNIQUE PRODUCT BENEFITS

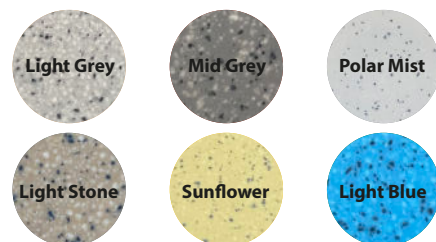
- Seamless quartz finish.
- Easy to clean and maintain.
- High chemical resistance.
- High abrasion resistance.
- Hard wearing floor finish.
- Non-dusting.
- Rapid installation.
- Taint free to sensitive food consumables.

TECHNICAL DETAILS

Compressive Strength	> 55 MPa	BS6319
Tensile Strength	> 15 MPa	
Flexural Strength	> 30 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Application	Self-levelling	
Profile	Smooth	
Finish	Satin	
Application Temperature	12 to 30°C	
Service Temperature	60°C mac (dry)	
Dry Film Thickness	2 mm system	
Solids Content	100%	
Touch Dry	10 to 12 hrs	
Hard Dry	24 hrs	
Full Cure	7 days	
Pot Life	30 min @ 20°C	
Kit Yield	24 L	
Coverage @ 2 mm	12 m ² / kit	

PACKAGING

Solidflow Quartz is supplied in pre-packed kits consisting of three parts including Part A (resin), Part B (activator) and Part C (powder) producing a total yield of 24 L or 40 kg kit.



*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

Western Cape
+27 (0)21 535 4455

Eastern Cape
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APPLICATIONS

- Commercial spaces
- Factory and warehouse floors
- Laboratories
- Electronic (Clean rooms)
- Automotive
- Aerospace (Hangars)
- Medium to heavy duty traffic environments where durability is required

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. The moisture content should be less than 5% and free from rising damp. The surface finish of the concrete should be class 2 (AS 3610).

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.

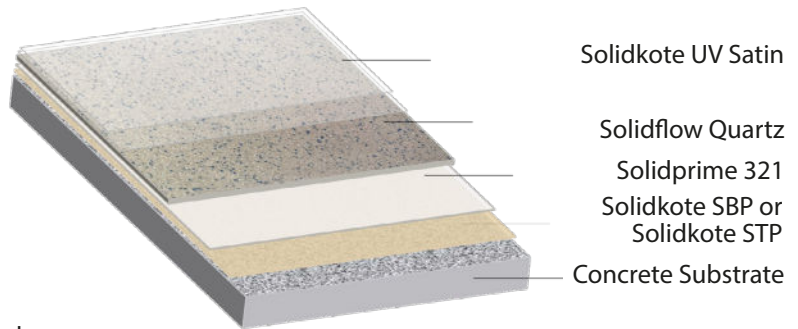
PRIMING

Ensure application conditions of 12 to 30°C and that the concrete moisture content is below 5%.

Prime with Solidkote SBP @ 6 to 8 m² / L. Allow to cure for a minimum of 4 hours.

Apply a scraper coat of Solidprime 321 @ 300 µm. Allow primer to cure for 6 to 8 hours prior to application of Solidflow Quartz with a maximum overcoating time of 18 hours.

Note: Solidkote STP Primer is recommended for difficult surfaces (persisting contamination).



INSTALLATION

Ensure application conditions of 12 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 1 thoroughly with a mechanical mixer.

Add the Part 2 into Part 1 and mix well to a uniform colour using a mechanical mixer. Ensure the mixing paddle scrapes the sides of the mixing vessel.

Then slowly add the Part 3 (aggregate) and mix for at least three minutes. The mix should not be kept in the container as it will start to cure rapidly.

Placing

Pour out the mix onto the demarcated area in a long ribbon and spread the mix using a notched rake to obtain the correct coverage and smooth off with the flat edge of the trowel (6 mm notched rake achieves a 2 mm film). A steel hand trowel may be used on the edges to assist with placing in smaller areas.

Allow to de-bubble for 5 minutes and then spike roll the surface to remove any entrapped air or bubbles. Spike roll again at 5 to 8 minutes to ensure sufficient removal of bubbles. Spike rolling should be done thoroughly to ensure that no more air bubbles are rising to the surface. Once satisfied that spike rolling is complete, it should be left to settle and not spike rolled again as this could lead to slight colour variations in areas treated differently.

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The inherent quartz, speckled finish will show in the product at about 10 to 15 minutes after spike rolling. The screed will smooth out and should be protected from dust or other airborne contamination settling on the surface during the curing period.

SEALING

Buff the surface down using a red pad on a polisher and remove all dust before applying 2 coats of Solidkote UV Satin. This sealer will produce a satin, silky smooth finish. Allow 3 to 5 hours between coats.

MAINTENANCE

Regular cleaning extends the service life of the Solidflow Quartz System. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (21 12/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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