

SOLIDFLOW QUARTZ

DECORATIVE 2MM SELF SMOOTHING EPOXY FLOOR SYSTEM

DESCRIPTION

SOLIDFLOW QUARTZ is a decorative, solvent-free, self-leveling epoxy system applied at a nominal thickness of 2mm. SOLIDFLOW QUARTZ exhibits a speckled quartz finish with superior abrasion and chemical resistance on concrete floors and creates a hygienic, smooth and attractive finish.

Solidflow Quartz Colours

Custom colour combinations on request



ADVANTAGES

- Seamless Quartz finish
- Easy to clean and maintain
- Excellent chemical resistance
- Hard wearing floor finish
- Excellent abrasion resistance
- Non-dusting
- Rapid installation

APPLICATIONS

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

TECHNICAL DETAILS

Application	Self-leveling
Profile	Smooth
Components	3 part system
Finish	Satin
Colours	Various
Application Temp	12-30°C
Service Temp	60°C max (dry)
Dry film thickness	2mm system
Solids content	100%
Touch Dry	10 - 12 hours
Hard Dry	24 hours
Full Cure	7 days
Pot-life	30 min @ 20°C
Yield	24L
Coverage	12 m ² per Kit @ 2mm
Compressive strength	> 55M/mm ² (BS 6319)
Flexural strength	> 30 N/mm ² (BS 6319)
Bond strength	> 1.5 MPa
Tensile strength	> 15 MPa
Toxicity: Taint free to sensitive food consumables	

SUBSTRATE REQUIREMENTS

- Substrate screeds are recommended to be Grade 2 concrete or of 20MPa compressive strength or higher with minimum pull off strength of 1.5 N/mm²
- All surfaces to be suitably prepared using grinders, shot blasting or scarifiers to remove laitance
- Substrate screeds must be clean and free of oily residues and friable material
- The substrate should be dry to 75% RH (BS 8204) and free from rising damp or ground water pressure.
- Porous substrate screeds must be sealed with a primer such as SOLIDKOTE UP Epoxy Primer, SOLIDKOTE WB Clear (damp conditions).

SYSTEM DETAILS

1. Solidkote UP (Epoxy Primer at $\pm 6\text{m}^2/\text{L}$) **or**
2. Solidkote WB Clear (Waterbased epoxy primer at $\pm 6\text{m}^2/\text{L}$)
3. Solidflow Quartz (2mm epoxy screed at 12m^2 per 24L kit)
4. Solidkote UV Super Satin HS (Satin Sealer, 10m^2 per L)

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 24L or 40kg kit.

DIRECTIONS

Prime the area with a suitable primer (Solidkote UP Epoxy Primer or Solidkote WB Clear) and allow curing for not more than 18 hours before proceeding with the SOLIDFLOW QUARTZ system. The primer must provide a visibly complete seal on top of the floor surface or apply another coat of primer. Broadcast scatter sand (Sand # 12) into the wet primer if time before top-coat application will exceed 18 hours.

Add the complete contents of the PART B container to that of the PART A container and mix well to a uniform colour using a mechanical mixing device such as a Festo or pan mixer. Then slowly add the PART C (powder) to the mix and mix very well for at least three minutes. Pour this mix onto the floor, do not retain any of the mix in the mixing container as it will start to cure rapidly. Spread the mix using a 4mm notched trowel or rake to obtain the correct coverage then smooth off with the flat edge of the trowel. Allow to self-degas for 5 minutes and then spike roll the surface to remove any entrapped air.

Spike roll again at 5-8 min 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. The inherent quartz, speckled finish will show in the product at about 10-15min 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.

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

SOLIDFLOW QUARTZ is a specialized system that must be installed by an approved applicator with documented quality assurance. Consult Technical Finishes for list of approved applicators.

HEALTH SAFETY

The system is non-hazardous to health and environment. Please consult Health and Safety Datasheets for each product from the Technical department or Representative.

Technical Finishes products are guaranteed against defective materials and are manufactured under high quality standards and are sold subject to its standard Terms and Conditions of sale, copies of which can be obtained on request.