

POLYSCREED EPOXY TERRAZZO

Decorative 8 - 10 mm Terrazzo Floor Finish



A decorative, hygienic, epoxy resin based terrazzo floor finishing screed. Exhibiting an exposed aggregate texture with a smooth surface of uniform colour designed for excellent resistance to abrasion, chemical attack and other physical aggression.

The product is based on the latest epoxy resin technology incorporating antimicrobial silver ion protection.

UNIQUE PRODUCT BENEFITS

- Decorative, attractive finish. Custom colour options.
- High chemical resistance.
- High abrasion and impact resistance.
- Seamless flooring system which is easy to maintain with a hygienic finish.
- HACCP compliant.
- Heat resistant to 80 °C.
- Solvent free.

TECHNICAL DETAILS

Compressive Strength	>55 MPa	BS6319
Tensile Strength	>6.5 MPa	
Flexural Strength	>40 MPa	
Concrete Adhesion	>1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	<0.5 mm: Category A	BS8204-1
Hardness	80	Shore D
Slip Resistance	Dry >40	TRRL Pendulum Slip Test
Water Uptake (Permeability)	Nil	Karsten Test
VOC	8 g / L	
Elastic Mod.	1350 N / mm ²	
Light Traffic	12 - 16 hours	
Heavy Traffic	24 hours	
Abrasion Resistance	Accelerated < 0.03 mm	
Chemical Resistance	Acids and sugars	
Yield	10 L	
Coverage	1.2 m ² / kit @ 8 mm 1.0 m ² / kit @ 10 mm	

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 causes yellowing, most prominent in light colours.

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

Distribution facilities nationwide

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APPLICATIONS:

- Decorative flooring
- Commercial flooring
- Shopping centres
- Airports
- Office parks
- Food processing plants
- Breweries
- Engineering areas

PACKAGING

2 L Resin, 1 L Activator and 18 kg aggregate.
Total 21 kg kit.

SHELF LIFE

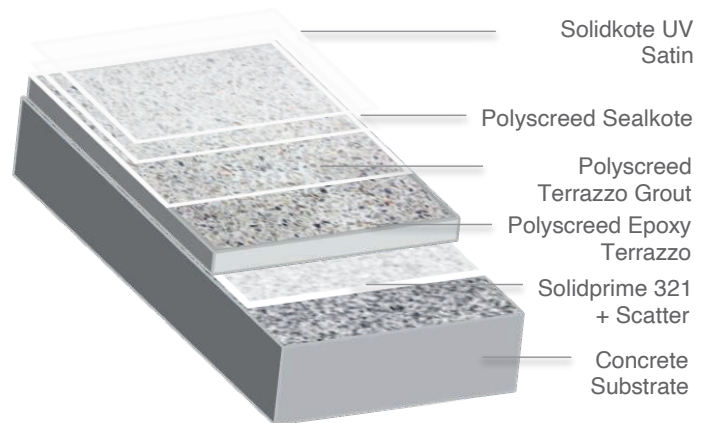
6 - 12 months when kept in a cool, dry place. Packaging must remain unopened and stored on pallets.

SPECIFICATION CLAUSE

The information contained in this document is to the best of our knowledge deemed to be correct. This is a specialized system, requires diamond grinding and polishing to achieve the final finish. Product to be installed only by approved contractors with the skill and experience in such applications.

SYSTEM BUILD UP

Primer	Solidprime 321 21 L	3 m ² / L
Primer (Optional)	Solidkote STP (Damp or green concrete)	4 - 6 m ² / L
Broadcast	Scatter Sand 25 kg	300 g / m ²
Screed	Polyscreed Epoxy Terrazzo 10 L	1.0 m ² / kit
Float Broadcast	Sand D33 (assist floating)	300 g / m ²
Grout	Polyscreed Terrazzo Grout	10 m ² / L
Sealer	Polyscreed Sealkote 5 L	6 m ² / L
Matt Coat	Solidkote UV Satin 5L	8 - 10 m ² / L



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.

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

Prepare all concrete surfaces in order to obtain a sound, dust free, dry surface. Diamond grinding, shot or Blast-trac are recommended. Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface. Degrease if oils are present with Liquid Action and allow to dry.

PRIMING

Ensure application conditions are between 15 to 28°C and at a maximum of 75% Relative Humidity. Perform a moisture test and ensure that the substrate moisture content is below 5%.

On damp or green concrete it is recommended to prime with Solidkote STP.

Prime with Solidprime 321 @ 300 um.

Broadcast 0.7 to 1.0 mm sand into wet primer at 300 g / m².

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Allow primer to cure for at least 6 - 8 hours prior to application of Polyscreed Epoxy Terrazzo. The primer must show a visibly complete seal of the substrate.

INSTALLATION:

Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

Open aggregate bag (Part 3) before the mixing starts to ensure no time is wasted between mixes / kits. Shake Part 1 and Part 2 vigorously prior to opening.

Set up the mixing machine as close to the floor as possible (Use two mixing vessels to ensure time between mixes / kits is minimized).

Decant Part 1 into mixing vessel, start timer when adding Part 2 and mix for 30 seconds. Once 30 seconds is complete, pour Part 3 into the mix and mix for a further 2 minutes until uniformly wetted out.

Placing

Applied at 10mm, ground to 8 mm.

Pour out the mix onto the demarcated area (controlled clearance screed box recommended) and pull evenly with a straight edge. Float the screed using plastic trowels to close the surface. As soon as the first mix has been troweled, the next mix should be delivered to the floor and placed into the previous mix. Lightly roll the surface with a medium pile mohair roller immediately to remove trowel marks and mix join regions (regions where two mixes meet).

Broadcast D33 silica sand onto the surface of the Polyscreed Terrazzo and begin to power float using an electric hover power float fitted with steel blades. Floating will assist with compaction. Allow the Polyscreed Epoxy Terrazzo to cure for 48 hours before proceeding.

Grinding and Polishing

Diamond grind the cured Polyscreed Epoxy Terrazzo to remove approx. 1 to 2 mm of the surface to expose the aggregate. Sweep and vacuum the surface to remove dust.

Proceed to profile the surface with a 50-grit resin bound diamond pad while wet. Pay close attention to stubborn or ponded areas to ensure good aggregate exposure. Rinse the surface down thoroughly with water and vacuum.

Grouting

Ensure the surface is free from dirt. A damp floor is needed for the grouting phase. Grout the floor to close holes and pits using Polyscreed Terrazzo Grout. Allow the grout to cure for 2 to 4 hours depending on the ambient temperature (surface will appear dry).

Grout a second time if pin holes and pits have to be closed effectively.

Finishing

Begin the polishing process by removing excess grout by wet polishing the surface with a 100-grit diamond resin pad. Rinse and vacuum the surface thoroughly and proceed with a second passing of the 100-grit pad to polish the surface smooth. Proceed to wet polish the surface with a 200-grit diamond resin pad. Once complete with the polishing process clean the floor well and allow to dry.

SEALING

Stain resistance is enhanced if the Polyscreed surface is sealed. Once the floor surface is clean and dry proceed to seal the surface with Polyscreed Sealkote. Allow the sealer to cure overnight. Depending on the desired finish apply a final finishing coat of either Solidkote UVC or Solidkote UV Satin. Allow the sealer to cure overnight.

MAINTENANCE

Regular cleaning extends the service life of the Polyscreed Epoxy Terrazzo 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.

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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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