

POLYSCREED EARTH FLOW

4 mm High Performance Self-Levelling Floor System

Polyscreed Earth Flow is a flow applied high performance, high early strength, decorative, self-levelling floor system applied at a nominal thickness of 4 mm. Polyscreed Earth Flow exhibits superior abrasion and chemical resistance on concrete floors and creates a hygienic, textured non-slip finish.



BENEFITS:



High chemical resistance.



High impact, abrasion and thermal shock resistance.



Seamless, easy to clean and maintain. Hygienic environment.



Low VOC content.



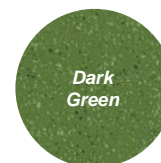
HACCP compliant.



Rapid installation with seamless finish.

TECHNICAL DETAILS

Compressive Strength	>50 MPa	BS6319
Tensile Strength	>12 MPa	
Flexural Strength	>20 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
Heat Resistance	-15 °C to 90 °C @ 4 mm	
Chemical Resistance	Refer to chemical chart	
Foot Traffic	12 to 16 hrs	
Heavy Traffic	24 hrs	
Kit Yield	21.2 L	
Coverage @ 4 mm	5.3 m ² per kit	
PACKAGING		
Part 1	4.9 kg (White Liquid)	
Part 2	5.1 kg (Brown Liquid)	
Part 3	1 x 0.6 kg (Pigment Pack)	
Part 4	2 x 15 kg (Aggregate)	
Total Kit	40.6 kg	



*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, yet does not affect performance.

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APPLICATIONS:

- Commercial floors
- Food processing plants
- 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.

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. It is standard practice to ensure grooves 5 mm by 5 mm, run parallel to and 150 mm from all walls, plinths, finished edges, expansion joints, columns.

PRIMING

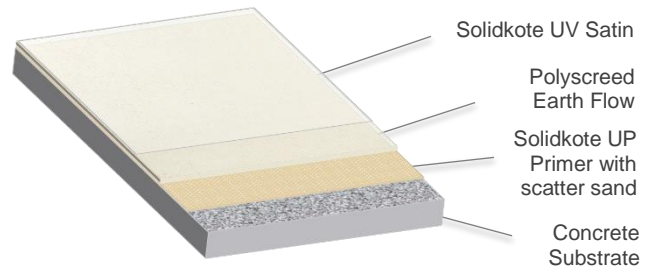
Ensure application conditions of 15 to 28 °C.

If the substrate moisture content is:

Less than 5% Prime with either: Solidkote UP Primer or Polyscreed PU Primer.

Greater than 5% Prime with Polyscreed PU Primer.

Broadcast 0.6 to 1.2 mm sand into wet primer at 0.5 to 1.0 kg / m². Allow primer to cure for at least 16 hours prior to application of Polyscreed Earth Flow 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. Installation should not be attempted unless application team is fully trained.

Mixing

Open both aggregate bags (Part 4) before the mixing starts to ensure no time is wasted between mixes/kits. Shake Part 1, Part 2 and Part 3 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 and Part 3 into mixing vessel and mix for 5 seconds (until uniform).

Start timer when adding Part 2 and mix for 30 seconds. Once 30 seconds is complete, pour Part 4 into the mix and mix for a further 2 minutes until uniformly wetted out.

Placing

Pour out the mix onto the demarcated area in a long ribbon and pull the mix with a 10 mm pin rake. As soon as the first mix has been troweled, the next mix should be delivered to the floor and placed into the previous mix. Spike roll immediately to remove trowel marks and mix join regions (regions where two mixes meet). Ensure spiking is within 8 minutes of the start time of each mix. Allow the surface to settle and cure.

SEALING

Stain resistance is enhanced if the Polyscreed Earth Flow surface is sealed. Solidkote UV Satin is recommended.

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MAINTENANCE:

Regular cleaning extends the service life of the Polyscreed Earth Flow system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

ANTIMICROBIAL RESISTANCE

An important advantage of the Polyscreed range is its silver ion technology which inhibits the growth of bacteria and fungi ensuring a more hygienic surface.

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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