

POLYSCREED TERRAZZO

Polymer Modified Impact Resistant Hard-Wearing Floor



Polyscreed Terrazzo is a ready to use blend of hard-wearing marble chip aggregates, polymer modified cement and additives which produces an abrasion resistant, impact resistant, 10 mm floor overlay screeding system.

Polyscreed Terrazzo provides a decorative finish of industrial strength once polished and sealed.

UNIQUE PRODUCT BENEFITS

- High early strength.
- Impact and abrasion resistant.
- Ready to grind and polish in 48 hours.
- Decorative terrazzo finish once polished.
- Functional and attractive finish.
- Pre-blended for consistency.
- Hard-wearing.
- Easy to maintain and repair.

TECHNICAL DETAILS

| | |
|----------------------|--------------------------|
| Compressive Strength | 50 MPa (28 day) |
| Kit Yield | 20 L (Mixed) |
| Coverage | 2 m ² @ 10 mm |
| Appearance | Cementitious mortar |
| Consistency | Medium slump paste |

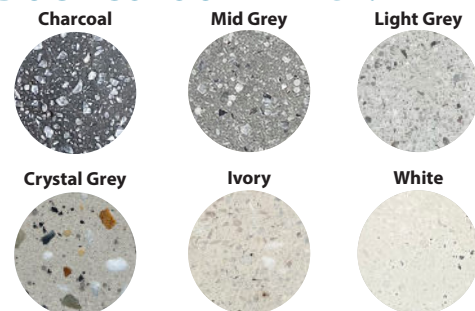
PACKAGING

2 x 20 kg Aggregate bags & 5 L Liquid

APPLICATIONS:

- Overlay for old worn concrete floors
- New floor system for renovations
- Commercial and residential floors
- Retail spaces
- Warehouses
- Storage
- Automotive dealerships
- Heavy duty flooring

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 yellowing is more prominent in light colours yet does not affect performance.

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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 debris followed by thorough vacuuming, to obtain a dry and clean surface. Wash with a degreaser *Liquid Action* cleaner for oily floors.

Mark out existing joints for post cutting once cured. Insert 10 mm aluminum strips to create panels of no bigger than 5 m x 5 m. Ensure to honor existing joints in concrete sub-base to allow for movement and make allowance for sealing of joints with *Solidjoint LV 100* sealant.

PRIMING

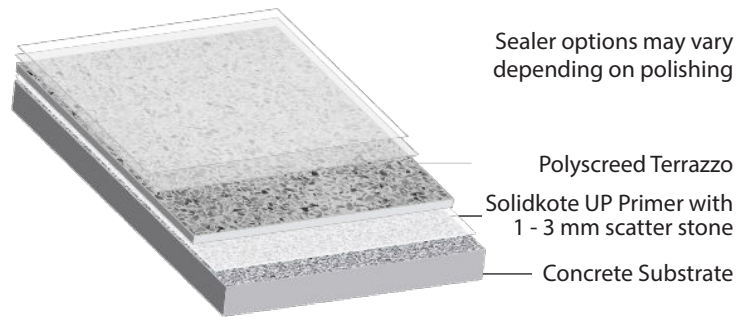
Ensure application conditions of 15 to 28°C.

Apply *Solidkote UP Primer* at a rate of 4 m² / L or 250 µm and fully blind the primer with *Scatter Stone 1 – 3 mm* at 500 g / m². Ensure primer is totally covered as the screed system will bond to the broadcast aggregate.

Allow the primed concrete to cure for at least 8 hours prior to further application. Sweep and remove all excess and unbonded *Scatter Stone 1 - 3 mm* by sweeping and vacuuming.

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

Mix the *Polyscreed Terrazzo* kit as supplied by liquids first followed by aggregate bags using a mechanical mortar mixer, pan mixer or a small conventional concrete mixer to produce an evenly wetted paste with a medium slump and trowel consistency.

Placing

Empty the mixture onto the pre-primed floor and rake out between screed bars (used to demarcate the area to fill to 10 mm thickness). Smooth out with a wooden float and straight edge to a level finish. Use a short mohair roller to assist with evening out the surface to produce as flat a surface as possible.

Curing

Allow the newly placed screed to cure for 5 to 8 hours. Wet the surface with clean water to assist with wet curing and maximize strength development. Cover the wet surface with plastic sheets for 48 hours.

Grinding and Polishing

With the aid of 650 mm diamond grinder fitted with 30/40 grit tooling, begin grinding the surface to begin exposing the natural aggregates. Proceed to stage 2 using 80/100 grit tooling.

Move onto 120-grit stage and prepare the grouting phase for filling of fine pin holes. With the aid of using *Polyscreed Terrazzo Liquid*, apply in front of the grinder at the 120-grit stage and begin grinding over the wet liquid (this will form a paste and fill the holes), repeat the process if necessary and allow to cure dry for a minimum of 3 to 4 hours. Once again with 120-grit tooling, remove all excess surface grout using the machine and dry cut. From this, proceed onto

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stages 200- and 400-grit diamond tooling as a minimum specification. At this stage the surface must be densified and sealed with *Lisofloor 950* and burnished with a high-speed propane floor burnisher.

Polyscreed Terrazzo can be polished further if required depending on requirements. For best results polish through stages 800-, 1200-grit to create the best final finish.

SEALING

Stain resistance is enhanced if the *Polyscreed Terrazzo* surface is sealed. A penetrating sealer such as *Solidkote UVC Clear* is recommended when the polishing is up to 400-grit only. For higher degrees of polishing use *Lisofloor 950* densifier followed by *Pentraguard HP* for the final finish.

MAINTENANCE

Regular cleaning extends the service life of the *Polyscreed 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.

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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