

# POLYSCREED EPOXY TERRAZZO



## DECORATIVE 8-10MM TERRAZZO FLOOR FINISH

### DESCRIPTION

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.

### ADVANTAGES

- Attractive finish
- Custom colour options
- Silver ion technology for antimicrobial protection
- Easy to clean and sanitize
- Seamless flooring finish
- Heat resistant to 80°C
- High chemical resistance
- High abrasion resistance
- High impact resistance
- Non-slip Terrazzo finish
- Solvent free
- HACCP Compliant

### APPLICATION

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

### TECHNICAL DETAILS

|                          |                         |
|--------------------------|-------------------------|
| Compressive Strength     | 55 N/mm <sup>2</sup>    |
| Tensile Strength         | 6.5 N/mm <sup>2</sup>   |
| Flexural Strength        | 40 N/mm <sup>2</sup>    |
| Colours                  | Various (Custom)        |
| VOC                      | 8g/Lt                   |
| Water Absorption         | <0.2%                   |
| Elastic Mod.             | 1350 N/mm <sup>2</sup>  |
| Impact Resistance        | Drop Test <3mm          |
| Heavy traffic            | 24 hours                |
| Light traffic            | 12-16 hours             |
| Abrasion Resistance      | Accelerated <0.03mm     |
| Chemical Resistance      | Acids and sugars        |
| Yield                    | 10 L                    |
| Nominal thickness 8.0mm  | 1.2m <sup>2</sup> /kit  |
| Nominal thickness 10.0mm | 1.0 m <sup>2</sup> /kit |

### PACKAGING

2L Resin, 1L Activator & 18Kg Aggregate.  
Total 21kg.

### 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.

### DIRECTIONS

#### SYSTEM BUILD UP

|                              | Product                                      | Coverage               |
|------------------------------|--|------------------------|
| <b>Primer</b>                | Solidkote UP Primer<br>15L                   | 4-6m <sup>2</sup> /L   |
| <b>Primer<br/>(optional)</b> | Solidkote STP<br>(Damp or green<br>concrete) | 4-6m <sup>2</sup> /L   |
| <b>Broadcast</b>             | Scatter Sand 25Kg                            | 300g/m <sup>2</sup>    |
| <b>Screed</b>                | Polyscreed Epoxy<br>Terrazzo 10L             | 1.0m <sup>2</sup> /Kit |
| <b>Float<br/>Broadcast</b>   | Sand D33 (assist<br>floating)                | 300g/m <sup>2</sup>    |
| <b>Grout</b>                 | Polyscreed Terrazzo<br>Grout                 | 10m <sup>2</sup> /L    |
| <b>Sealer</b>                | Polyscreed Sealkote<br>5L                    | 6m <sup>2</sup> /L     |
| <b>Matt Coat</b>             | Solidkote UV Super<br>Satin 5L               | 8-10m <sup>2</sup> /L  |

### APPLICATION DETAILS

#### PREPARATION

##### Substrate Requirements

Concrete substrates are to be 20-25 MPa compressive strength, free of dust and friable materials. There must be no moisture vapour rising from the concrete and moisture content must be less than 5%. Prepare all concrete surfaces in order to obtain a sound, dust free, dry surface. Diamond grinding, shot or Blast-trac are recommended. Degrease if oils are present with Liquid Action and allow to dry.

#### PRIMING

Ensure application conditions are between 10-30°C and at a maximum of 75% Relative Humidity. Perform a moisture test and ensure the substrate moisture content is not more than 5%. On damp or green concrete it is recommended to prime with Solidkote STP. Prime with Solidkote UP Epoxy primer using a squeegee at a rate of 4-6m<sup>2</sup>/L depending on concrete porosity.

Into the wet primer, broadcast the 0.7-1mm Silica (Gen Scatter Stone) at a rate of 300g/m<sup>2</sup> and allow to cure for 8 hours before proceeding.

#### SCREEDING

Mix the full contents of the 2L Polyscreed Epoxy Terrazzo Resin and 1L Activator in a pan mixer for 2 minutes. Add the supplied aggregate while mixing and mix to a uniformly wetted mixture. Pour the mixed product out onto the demarcated area and trowel out by hand until an even surface is achieved. The use of 10mm screed bars will assist. With the aid of spike shoes, broadcast D33 silica sand onto the surface of the Polyscreed Epoxy Terrazzo system and begin to power float using an electric hover powerfloat fitted with steel blades. Floating will assist with compaction. Allow the Polyscreed Epoxy Terrazzo to cure for 48 hours before proceeding.

#### GRINDING

Diamond grind the cured Polyscreed Epoxy Terrazzo to remove approx. 1-2mm 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. Dampen the surface down with fresh water. Proceed to mix the Polyscreed Terrazzo Grout system to a slurry consistency by combining the supplied white cement with the pigmented bonding agent. Trowel the slurry mixture out by hand using a steel trowel in a scratch coat fashion and grout the entire floor surface paying close attention to all the pitted areas. Larger holes and voids will require an additional grout coat. Allow the grout to cure for 2-4hours depending on temperature (Surface will appear dry).

#### **POLISHING**

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. Mix the resin and Activator as supplied for 2-3 minutes. Trowel the sealer coat out by hand and back roll the surface with a good quality short mohair roller. Allow the sealer to cure overnight. Depending on the desired finish apply a final finishing coat of either Solidkote UVC or Solidkote UV super Satin. Allow the sealer to cure overnight before hand over.

#### **MAINTENANCE**

##### **Cleaning**

Regular mopping will maintain the POLYSCREED EPOXY TERRAZZO in a serviceable condition. Maintenance is to be carried out using LIQUID ACTION which complies with the requirements of specification SANS 1344 - Medium Duty Solvent Detergent (report number 2112/P3325/10/ID). Refer to LIQUID ACTION technical datasheet for use details.

##### **Antimicrobial Resistance**

The Polyscreed range of products makes use of silver ion technology in formulation which inhibits the growth of bacteria and fungi in contact with the product. The hygienic advantage is therefore not only derived from the daily use of the floor but in the longer life this technology affords in retarding the degradation of the floor by microorganisms.

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