

POLYSCREED QUARTZ

COLOURED QUARTZ POWER TROWELED RESIN SCREED

DESCRIPTION

Polyscreed Quartz is a hard wearing coloured quartz screeding system which provides exceptional abrasion/wear and chemical resistance. Polyscreed Quartz exhibits outstanding resistance to chalking and weathering. Polyscreed Quartz displays attractive aesthetics with an exposed aggregate or Terrazzo type look together with performance which renders it ideal for demanding industrial or commercial flooring environments.

APPLICATIONS

- Ideal for demanding environments
- Aesthetics and durability is essential
- Food process areas,
- Industrial kitchens
- Retail outlets
- Malls and Supermarkets
- Restaurants, Canteens
- Healthcare or Hospitals
- Commercial office spaces
- Schools and walkways
- The possibilities are endless

BENEFITS

- Decorative floor finish with custom colours to suit every need
- Excellent scratch and mar resistance
- Smooth consistent satin/matt finish
- Excellent stain resistance in the food environment
- Seamless and hygienic finish
- Excellent chemical resistance
- Rapid installation

TECHNICAL DETAILS

Application	Electric Power Trowel
Compressive	> 45 MPa (BS 6319)
Profile	Smooth, seamless non slip
Flexural Strength	> 18 MPa
Bond strength	> 1.5 MPa
Finish	Satin matt
Application Temperature	5 - 30°C
Service Temperature	60 °C max dry
Dry Film Thickness	3 – 4mm system
Colour	Various/ Custom
Walk on time	15hrs at 20 °C
Full cure	5 days
Chemical resistance: Consult our technical department for details	

SYSTEM DETAILS AND COVERAGE

Solidkote UP Epoxy Primer	15L will cover 60m ² @ 250um
Scatter Quartz aggregate	300g/m ²
Polyscreed Quartz Slurry	21L will cover 17.5m ² @ 1.2mm
Polyscreed coloured quartz aggregate	Spread rate @ 4Kg/m ²
Polyscreed Quartz Sealkote	15L will cover 50-60m ² @ 250um
Solidkote UV Super Satin (Satin or Gloss)	40m ² /5L @ 125um Wet film Thickness

APPLICATION

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

DIRECTIONS

SUBSTRATE PREPARATION

Surfaces to be coated must be clean and free of dust, oily residues and loose friable material. All surfaces to be suitably prepared using grinders, shot blasting or scarifiers to remove laitance. Substrate must be a concrete screed Grade 2 evenness and must be a minimum of 20MPa compressive strength and must have a tensile pull off exceeding 1.5 MPa. The substrate should be dry to 75% RH (BS 8204) and free from rising damp or ground water pressure.

PRIMING

Prime the prepared concrete surface with **Solidkote UP Epoxy primer** (15L, 2 component) and ensure sufficient priming is achieved by means of a visible seal. Into the wet primer layer, apply **General scatter quartz** (0.7 mm silica) at a rate of 300g per square metre and allow to cure for 8hrs.

SLURRY

The next step involves applying the Polyscreed Quartz Slurry (21L, 3 component) system using the **scatter stone as an indication of required depth** by hand trowelling the mixed slurry into place. Each slurry kit when mixed will achieved 17.5m² at 0.7-1.0 mm depth.

COLOUR QUARTZ BROADCAST

During application of the slurry layer the **Polyscreed Colour Quartz** (predetermined colour system) is then broadcast into the freshly laid, **wet** slurry at a rate of **4Kg/m²**. This step must be done sufficiently to completely blind and saturate the wet slurry thus ensuring full coverage of the surface. The technique of the broadcast is important as the quartz needs to be broadcast **up into the air** allowing it to settle naturally onto the surface to ensure consistency.

Allow the colour quartz to settle and wet out for a minimum of 10 minutes. Once the **Polyscreed Quartz Aggregate** has been broadcast and allowed to settle, the surface is then swept with

an **electric leaf blower** to remove excess, unwetted quartz from the surface. Allow an additional 10 minutes for further wetting. Avoid wet patches by broadcasting additional colour aggregate very lightly.

FLOATING

The surface is then power floated using a medium duty electric power float fitted with plastic or Teflon blades until a uniform and compacted surface is achieved. Areas where resin might come through (will appear wet) will need additional aggregate applied and then power floated again. Once a satisfactory finish is achieved the screed is then left over night to cure. This is a skilled process.

DE-NIBBING

Inspect the floor for any sharp or high points and use a **steel trowel** to remove any residual colour quartz that may be **protruding on the surface** and vacuum from the surface to ensure that the newly laid screed is sufficiently clean and dirt free.

SEALKOTE

Before applying the sealer coats ensure the surface is smooth enough by lightly running a hand across the surface. Then apply the **Polyscreed Quartz Sealkote** (15L, 2 component) at a rate of 50-60m² at 250um using a rubber squeegee or trowel by hand to ensure the screed porosity is reduced to a minimum and allow to cure. Once the Sealkote is cured over 24 hours a thin coat of **Solidkote UV Super Satin** is applied to provide a final clear satin/matt finish. Allow drying overnight before trafficking the surface.

Gauteng

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HEALTH & SAFETY

This system is solvent free and non-flammable but may be hazardous during mixing and application. Please consult Health and Safety Data sheets for each product.

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 from our technical department.

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