

## Quartzscreed

### Description

Quartzscreed is a three component, multi-coloured Quartz- based, Epoxy resin floor system.

It provides a hard wearing, non-slip, chemical resistant floor topping of aesthetically pleasing appearance.

An attractive standard range of colour mixes exists, although individual designs can be custom made.

### Typical Uses

As a decorative, hygienic, and durable floor screed where aesthetics are an important consideration e.g. Food production, electronic and engineering industries, printing, pharmaceutical production, hospitals, etc.

### Advantages

- \* Impermeable
- \* Very good chemical resistance
- \* Abrasion and impact resistant
- \* Hygienic and easily cleaned
- \* Slip resistant
- \* Unlimited number of colour possibilities

### Typical Properties

Pot life @ 20C:	50 minutes
Curing times :	Light foot traffic after 10 hours @ 20C; full trafficking after 24 hours @ 20C
Thickness:	minimum 4mm, typically 6mm
Compressive strength:	65N/Sq.mm.
Flexural strength:	30N/Sq.mm.
Temperature range:	during application: 3C to 30C in service: -20C to +60C
Chemical resistance:	Excellent resistance to dilute acids and alkalis, oil, petrol, diesel, vegetable oils, and fruit juices.

## PROCEDURE

### 1. Surface Preparation

a) Concrete shall be a minimum of 21 days old and/or the residual moisture content shall be below 6%.

Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound, existing paint finishes, etc.

Blow holes and defective concrete shall be made good using a proprietary repair compound e.g. Floorpatch. Suitable mechanical treatment, such as vacuum grit blasting is the preferred treatment prior to application, as this ensures a mechanical 'key' which will optimise adhesion.

b) Steel surfaces shall be shot blasted or grit blasted to a nominal Sa 2.5 Swedish Standard.

All dust shall be removed prior to coating application.

A coat of Steelprime shall be applied as soon as practicable after blasting, in order to obviate the possible occurrence of 'flash rusting'.

### 2. Priming

a) Concrete surfaces shall be primed with a coat of Tackprimer, applied by brush roller, or airless spray, at the nominal rate of 0.25Kg/Sq.m. Long nap lambswool rollers are recommended for primer application. Allow primer to cure for a minimum of 10 minutes.

b) Steel surfaces shall be primed with Steelprime (see section 1b above).

### 3. Mixing

Quartzscreed is supplied as a three pack material consisting of: the RESIN component, the CURING AGENT component, and the COLOURED QUARTZ component.

Add the CURING AGENT component to the RESIN component and mix thoroughly, preferably by mechanical means, for a minimum of 2 minutes.

Pour the contents into a mixing vessel, and add the COLOURED QUARTZ component whilst stirring.

A low speed drill with paddle attachment may be used, or else a forced action mixer e.g. Creteangle type.

### 4. Application

Spread the Quartzscreed to the desired thickness, and trowel finish.

**5. Sealing.**

The application of a clear sealer is recommended to reduce tendency towards staining and dirt pick up, and thereby ensure optimum ease of cleaning:

Apply 1 coat of Screedseal, single pack, water-based polyurethane sealer, at a nominal rate of 0.15litres/Sq.m.  
screedseal will provide a satin finish.

**6. Equipment Cleaning**

Clean all equipment, immediately after use, with Toolclean.

**7. Curing**

Allow a minimum cure time of 10 hours @ 20C prior to overcoating or foot trafficking.

For optimum chemical resistance, a minimum cure time of 7 days @ 20C should be allowed.

**8. Packaging**

Quartzscreed is supplied in 25Kg packs.

**9. Coverage**

A 25 Kg pack is sufficient to cover an area of 2.3 Sq.m. at a thickness of 6mm.

**10. Storage and Shelf Life**

Store in dry, cool conditions, preferably at temperatures between 10C and 20C, and out of direct sunlight. Adequate ventilation of the storage area should be provided.

Keep containers tightly closed when not in use.

Quartzscreed has a minimum shelf life of 12 months when stored in original, unopened containers, in accordance with manufacturer's instruction.

**11. Limitations**

Do not apply to wet or uncured concrete.

Do not apply at temperatures below 3C.

Please refer to the Material Safety Data Sheet and the General Information Sheet before use.