

EPOQUARTZ

Decorative Epoxy Floor Topping

Description

EPOQUARTZ is a three component, multi-coloured Quartz based epoxy resin floor system. It provides a hard wearing, anti-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 @ 20°C: 30 minutes
Curing times : Light foot traffic - 10 hours @ 20°C
Full trafficking - 24 hours @ 20°C
Thickness: minimum 4mm, typically 6mm
Compressive strength: 65 N/mm²
Flexural strength: 30 N/mm²
Temperature range:
- during application: 5°C to 30°C
- in service: -20°C to +60°C
Chemical resistance: Excellent resistance to dilute acids and alkalis, oil, petrol, diesel, vegetable oils, and fruit juices.

For specific advice please consult our Technical Department

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. CEMART EP MORTAR. 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 EPOPRIME shall be applied as soon as practicable after blasting, in order to obviate the possible occurrence of 'flash rusting'.

Priming

Concrete surfaces shall be primed with a coat of EPO-TACKPRIME, applied by brush roller or airless spray at the nominal rate of 0.25 kg/m². Long nap lambs wool rollers are recommended for primer application. Allow primer to cure for a minimum of 30 minutes or until sufficiently tacky.

Mixing

EPOQUARTZ is supplied as a three pack material consisting of the RESIN component, CURING AGENT component and the COLOURED QUARTZ AGGREGATE 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 a forced action mixer e.g. Creteangle type.

Application

Spread the EPOQUARTZ to the desired thickness and trowel finish.

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 EPOCOAT SEALER, single pack, water-based polyurethane sealer at a nominal rate of 0.15 litres per m². EPOCOAT SEALER is available as a gloss, silk or matt finish. See separate Technical Datasheet.

Cleaning

Clean all equipment immediately after use with CEMART TOOLCLEAN.

Curing

Allow a minimum cure time of 10 hours @ 20°C prior to overcoating or foot trafficking. For optimum chemical resistance, a minimum cure time of 7 days @ 20°C should be allowed.

Packaging

EPOQUARTZ is supplied in 22.7 kg and 28.4 kg packs.

Coverage

A 28.4 kg pack is sufficient to cover an area of 2.8 m² at a thickness of 5mm.

A 22.7 kg pack is sufficient to cover an area of 2.2 m² at a thickness of 5mm.

Storage and Shelf Life

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

Keep containers tightly closed when not in use.

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

Limitations

Do not apply to wet or uncured concrete.

Do not apply at temperatures below 5°C.

Health and Safety

Avoid contact of the material with skin and eyes.

Wear appropriate gloves, overalls and eye protection during use. Please refer to material Safety Data Sheet for additional information. For specific advice regarding any aspect of this product, please consult our Technical Section.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department. Please consult our Sales Department to confirm that this Data Sheet is the current issue.