

# Stroncoat EP Quartz

Medium heavy duty epoxy system



## DESCRIPTION

Strongcoat EP Quartz is a high build, chemical resistant system providing a glossy quartz decorative finish.

## APPLICATIONS

Strongcoat EP Quartz is used to provide a hygienic, dense and hard-wearing surface for concrete floors for a wide range of applications such as:

- » Pharmaceuticals.
- » Healthcare facilities .
- » Show Rooms.
- » Food and beverage facilities.
- » Freezers and refrigerated storage (at 5 mm thickness).

## ADVANTAGES

- » Hard-wearing system.
- » Solvent free.
- » Slip-resistant (depending on the desired finish).
- » Available in a wide range of attractive colours.
- » Decorative quartz finish.
- » Resist a wide range of chemicals, consult DCP technical department for more details.

## METHOD OF USE

### SUBSTRATE PREPARATION

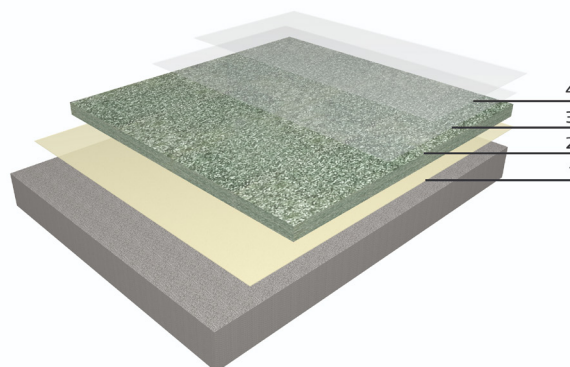
The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

Concrete relative humidity should be less than 80% for concrete of 28 days old or more, for low W/C ratio concrete floors, 80% hygrometer reading or less can be achieved before 28 days age.

### SURFACE PREPARATION

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.



**Strongcoat EP Quartz**  
(Total system thickness ~ 4 mm)

No.	Layer	Consumption (kg/m <sup>2</sup> )
1	Strongcoat Primer	0.11
	Antislip Aggregates # 2	0.12 - 0.13
	Strongcoat Primer	0.175
2	Strongcoat EP Quartz Screed	8
3	Strongcoat EP Quartz Grouting Coat 1	0.4 - 0.8
4	Strongcoat EP Quartz Grouting Coat 2	0.3

### PRIMING LAYER

Concrete substrates should be primed with Strongcoat Primer.

Use lambs' wool roller to apply the primer at the rate of 0.11 kg/m<sup>2</sup>.

Work the primer well into the surface of the concrete and whilst the primer is wet, dress the surface with Antislip Aggregates #2 at the rate of 0.12 – 0.13 kg/m<sup>2</sup> and allow to touch dry.

Another primer coat shall be applied at the rate of 0.175 kg/m<sup>2</sup> just before applying the mixed Strongcoat EP Quartz to ensure a strong bond between the primer coat and the top coat.

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## SCREED LAYER

Prior to mixing, stir the individual components of Strongcoat EP Quartz, taking care to ensure that the bottom and sides are thoroughly scraped. Transfer the entire contents of the Base and Hardener into a separate mixing container. Using a Jiffy-type mixer attached to a slow-running electrical drill, mix for approximately 2 minutes.

Once mixed, transfer the entire contents into a Casco or Crete angle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the desired Quartz at the typical rate of 1 kg Strongcoat EP Quartz to 7 kg Quartz (1 kg Mixed Resin to 7 kg Desired Quartz), ensuring that the quartz aggregates are completely dry. Continue mixing for approximately 2 minutes.

Once mixing is complete, transfer the mixed Strongcoat EP Quartz screed to the tacky uncured primer coat surface and using a straight-edged steel trowel, apply it evenly at the rate of 8 kg/m<sup>2</sup>. The use of Quickmast Solvent when used to clean the trowel will also aid in producing a tight closed surface.

*Important: When applying each kit of Strongcoat EP Quartz, leave approximately 200 mm of the closest working edge untrowelled as this will help the blending in of the next kit.*

### Notes:

- » Avoid excessive trowelling as this can lead to marks resembling burns on the surface.
- » The mixing ratio for quartz can be between 6 - 10 kg per 1 kg of resin depending on the type and shape of aggregates used.

## GROUTING

Using a Jiffy-type mixer attached to a slow-running electrical drill, mix the Base and Hardener of Strongcoat EP Quartz for 2 to 3 minutes until a homogeneous mix is obtained.

Apply the mixed Strongcoat EP Quartz resin using a flat trowel or squeegee at a rate stated in Table 1 according to desired finish, and backroll the surface using a nap roller. Allow it to cure for approximately 24 hours (may vary depending on ambient temperature).

Apply a second coat Strongcoat EP Quartz using a flat trowel or squeegee at the rate of 0.3 kg/m<sup>2</sup> from Table 1 and backroll the surface using a nap roller.

Table 1

Desired finish and appearance	Matt finish kg/ m <sup>2</sup>	Semi-gloss finish kg/m <sup>2</sup>
First grouting layer coverage	0.4	0.8
second grouting layer coverage	0.3	0.3

*Semi-Wet finish provides a less glossy finish and higher slip resistance.*

## CLEANING

Strongcoat EP Quartz can be removed by DCP solvent prior setting.

## PACKAGING

Strongcoat EP Quartz is available in 6 and 18 kg packs of base and hardener.

Strongcoat Primer is available in 5 kg packs.

Quartz aggregates are not included.

## REMARKS

- » Never mix Strongcoat EP Quartz by hand as this could lead to areas of uncured material.
- » In certain cases, the Base of the product can be supplied uncoloured and needs the addition of a colour pack. In such cases, mix the components of the Base, Hardener and colour pack using same procedure above, then add the filler component accordingly.

## STORAGE

Strongcoat EP Quartz and primer have a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 30°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

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## **CAUTIONS**

## **HEALTH AND SAFETY**

Strongcoat EP Quartz and its primer should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

## **FIRE**

Strongcoat EP Quartz and its primer are nonflammable.



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A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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#### Note:

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