

Strongcoat EP Screed

Heavy-duty resin-bound permeable stone carpet system



DESCRIPTION

Strongcoat EP Screed is a two-component, solvent-free, epoxy-based resin-bound stone carpet system with water permeability properties.

The system provides a wide variety of finishes which are dependent on the type, colour and size of the used aggregates along with their proportion with the resin. The system can be applied at 5 - 50 mm thickness based on the size of aggregate used.

APPLICATIONS

Strongcoat EP Screed is used to provide an extremely hard-wearing natural looking stone carpet system for a wide range of applications such as:

- » Public footpaths.
- » Driveways and car parks.
- » Pool surrounds.
- » Garden paths.
- » Decorative landscaping.

ADVANTAGES

- » Hard-wearing system.
- » Solvent-free.
- » Non-slip.
- » Permeable.
- » Natural appearance.
- » Low maintenance.
- » Enhances the natural colour of aggregate used.
- » Resistant to a wide range of chemicals.
- » May be used for outdoor applications. Strongcoat EP Screed may yellow under UV exposure; however, this may be minimal depending on the colour of the aggregates used.

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 system.

Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 75% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

TECHNICAL PROPERTIES FOR THE NEAT MIXED RESIN (WITHOUT AGGREGATE) @ 25°C:

| | |
|--|----------------------------------|
| Appearance: | Yellowish clear liquid |
| Mixed density: | 1.1 ± 0.1 g/cm ³ |
| Pot life: | 30 - 50 min |
| Compressive strength: BS 6319, part 2 | ≥ 60 MPa @ 7 days |
| VOC: ASTM D2369 | ≤ 20 g/ltr (comply with LEED) |

Concrete relative humidity should be less than 75% for concrete of 28 days old or more, for low W/C ratio concrete floors, 75% hygrometer reading or less can be achieved before 28 days age.

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.

PRIMING

Prepared substrates should be primed using the mixed resin only, without adding aggregates. Apply the primer with a lamb's wool roller at a coverage rate of 5 – 6 m²/kg.

Work the primer thoroughly into the concrete surface. While it is still wet, broadcast the chosen aggregate at a rate of 0.2 – 0.5 kg/m². Allow the primer to dry before proceeding. This step improves both the spreading and the application of the screed mix.

The primer should be overcoated within 12 - 24 hours.

MIXING

Transfer the entire contents of the hardener pack into the base container and mix using a jiffy-type mixer attached to a slow running electric drill, mix for approximately 2 minutes.

Start the mixer and add the entire contents of the aggregate part. Continue mixing for approximately 3 minutes until a uniform mix is achieved and the aggregates are well-coated with the resin mix.

Important: Never mix by hand as this could lead to areas of uncured material.

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APPLICATION

Once mixing is complete, transfer Strongcoat EP Screed to the primed surface and using a straight-edged steel trowel or a screed laying box, apply it evenly.

After application and depending on the aggregate size and shape and the needed surface finish, a hand mechanical trowel can be used to provide a more compacted and levelled surface.

Note: Excess compacting will affect the permeability of the screed.

REMARKS

- » Strongcoat EP Screed should not be applied onto surfaces which are known to suffer from damp rising.
- » Strongcoat EP Screed should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.

SEALING

For optimal performance and lasting visual appeal, Strongcoat EP Screed may be sealed with Repcoat PX Clear.

Apply Repcoat PX Clear using a brush, roller, or airless spray machine at a coverage rate of 0.10 – 0.15 litre/m² per coat.

For further details, please refer to the Repcoat PX Clear datasheet.

Notes:

- » *Applying a sealer may reduce slip resistance, especially under wet conditions, depending on the size and shape of the aggregates used. Sealing will also reduce the permeable properties of the system.*
- » *While Repcoat PX Clear provides a protective, UV-resistant seal, Strongcoat EP Screed is an epoxy-based system and may still exhibit yellowing when exposed to UV light.*

CLEANING

Strongcoat EP Screed and Repcoat PX Clear can be cleaned by using DCP Solvent prior setting.

PACKAGING

Strongcoat EP Screed (neat resin) is available in 5 kg packs.

Repcoat PX clear is available in 20 and 25 litre packs.

MIXING RATIO

The mixing ratio of resin to aggregate depends on the size and shape of the aggregate. As a general starting point, the recommended mix ratio is:

Resin (base and hardener): 5 kg.

Aggregate: 50 kg.

THICKNESS RANGE

5 - 50 mm, depending on aggregate size and shape.

COVERAGE

The actual coverage rate of Strongcoat EP Screed depends on the size of the aggregate and the mixing proportion between the resin and aggregate.

However, the approximate coverage rate of the mixed product is in range of 5.5 m² per 55 kg mixed screed at 5 mm thickness

STORAGE

Strongcoat EP Screed and Repcoat PX Clear have a shelf life of 12 months from date of manufacturing if stored in dry conditions at a temperature of 25°C in original unopened packs.

If these conditions are exceeded, contact DCP Technical Department for advice.

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CAUTIONS

HEALTH AND SAFETY

Strongcoat EP Screed and Repcoat PX Clear should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information, refer to the Material Safety Data Sheet.

FIRE

Strongcoat EP Screed is nonflammable.

Repcoat PX Clear and DCP Solvent are flammable.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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