

## Strongcoat EP Screed Method Statement

(Heavy-duty resin-bound permeable stone carpet system)

### Section A: General Comments

#### Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

<i>Protective clothing</i>	:	<i>Gloves, goggles, face mask, and protective overalls</i>
<i>Mixing equipment</i>	:	<i>Jiffy-type mixer fitted to slow speed electric drill, Casco or creteangle-type mixer</i>
<i>Application equipment</i>	:	<i>Straight-edged steel trowel or a screed laying box, hand mechanical trowel [if required]</i>

### Section B: Application

#### 1.0 Surface Preparation

- 1.1 Concrete substrates should be fully cured and achieve a minimum compressive strength of 25 N/mm<sup>2</sup> and a minimum pull-off strength of 1.5 N/mm<sup>2</sup>.
- 1.2 Concrete substrate should be below 75% relative humidity and a maximum moisture content of 4% for concrete of 28 days old or more. relative humidity can be measured by using hygrometers.
- 1.3 The substrate should be dry, clean, dense, and free from oil, grease, dust, or any other contaminants.
- 1.4 A clean surface will ensure maximum adhesion between the substrate and the system.
- 1.5 Suitable Mechanical method should be used to remove any unsound layers and contaminated concrete surfaces.

*Note: If the surface is contaminated by oil or grease, it is recommended to treat such areas with hot compressed air.*

#### 2.0 Priming

- 2.1 Clean the substrate from any traces of dust or any loose materials.
- 2.2 Use slow speed drill fitted with mixing paddle to mix the Base and Hardener components of Strongcoat EP Screed (to be used as a primer).
- 2.3 Stir the individual components thoroughly before mixing them together.
- 2.4 Pour the liquid Hardener to the Base and start mixing for approximately 2 minutes.
- 2.5 Use lambs wool roller to apply the mixed Strongcoat EP Screed onto the prepared surfaces at a coverage rate of 5 - 6 m<sup>2</sup>/kg.



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- 2.6 Work the primer well into the surface of the concrete and while the primer is still wet, dress the surface with 0.2 - 0.5 kg/m<sup>2</sup> of Antislip Aggregate #2 or Antislip Aggregate #3 and allow drying.
- 2.7 This will help in the spreading and application of the screed mix.
- 2.8 The primer should be overcoated within 12 - 24 hours with the floor screed.

### 3.0 Mixing

- 3.1 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.
- 3.2 Once mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.
- 3.3 Start the mixer and transfer to it the entire contents of the aggregate part taking care to ensure that these are completely dry.
- 3.4 Continue mixing for approximately 3 minutes until a uniform mix is achieved and the aggregates are well coated with the resin mix.

*Notes: Never mix **Strongcoat EP Screed** by hand as this could lead to areas of uncured material.*

### 4.0 Application

- 4.1 Each independent area of application should have sufficient materials, equipment, and labour.
- 4.2 Once mixing is complete, transfer Strongcoat EP Screed to the primed surface.
- 4.3 Use a straight-edged steel trowel or a screed laying box to apply evenly onto the primed surfaces.
- 4.4 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.

*Notes:*

- *Excess compacting will affect the permeability of the screed.*
- ***Strongcoat EP Screed** should not be applied onto surfaces that 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%.*



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## 5.0 Sealing

- 5.0 For outdoor applications, **Strongcoat EP Screed** should be overcoated with **Repcoat PX Clear** to provide a sealed and UV stable surface, which is a two-component aliphatic polyurethane clear coat.
- 5.1 Apply **Repcoat PX Clear** by brush, roller, or airless spray machine at a coverage rate of 0.10 - 0.15 litre/m<sup>2</sup> per coat.
- 5.2 For more information, refer to **Repcoat PX** datasheet or consult DCP's Technical Department.

### Notes:

- *The application of a sealer can impair the slip resistance of the floor; based on the size and shape of aggregates used, when subject to wet conditions.*
- *Sealer will also impair 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. The application of **Repcoat PX Clear** will not prevent this natural discolouration.*

## 6.0 Cleaning

- 6.1 Tools and equipment can be cleaned with **DCP-Solvent**.

## Section C: Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Strongcoat EP Screed**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.



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