

Strongcoat Epoxy Method Statement

(Solvent free, nontoxic epoxy protective coating for concrete and metal)

Section A : General Comments

High temperature working

The following measures should be adopted if the ambient temperatures exceeding 30°C:

- (i) Unmixed materials and the equipment should be stored in a cool place and away from direct sunlight.
- (ii) Plan for enough material, tools and labours to avoid any stoppage during the application process.
- (iii) Avoid application through peak temperatures of the day.
- (iv) Ensure proper and adequate ventilation.

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>Slow speed mixing drill, mixing vessel and mixing paddle</i>
<i>Application equipment</i>	:	<i>Lambs wool roller, painting brush or airless spray machine</i>

Section B : Application

1.0 Surface Preparation

1.1 Concrete Surfaces

- 1.1.1 The substrate should be dry, clean and free from any laitance, wax, grease, dirt and oil or any materials could affect the bond.
- 1.1.2 Suitable Mechanical method such grinding, light sand/grit blasting, acid etching or any equivalent method should be used to remove any existing old coating or surface treatments like the curing compound, oil, etc.

Note: If the surface is contaminated by oil or grease, it is recommended to consult our technical department to advice for the suitable method for removing the contamination.

- 1.1.3 All cracks and spalled concrete should be repaired before starting the application as recommended by our technical department.
- 1.1.4 Exposed blow holes should be filled with Quickmast 341.



1.2 Steel Surfaces

- 1.2.1 All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.

2.0 Mixing

- 2.1 Use slow speed drill fitted with mixing paddle to mix the components of Strongcoat Epoxy (Base, Hardener).
- 2.2 Stir the individual components thoroughly before mixing them together.
- 2.3 Pour the base in suitable drum and start adding the hardener to the base component gradually while continuous mixing is maintained using slow speed mixer fitted with suitable paddle. Continue mixing for 3 minutes until a homogenous colour and consistency are achieved.
- 2.4 Do not mix part of packs under any condition, as this will change the mixing ratio between the hardener and the base which will affect the material performance.

3.0 Priming

- 3.1 Strongcoat Epoxy is designed to be applied over well prepared steel and concrete substrates directly without a primer. If the application will be taken place over other substrates, please consult DCP's Technical department for advice.

4.0 Application

- 4.1 Each independent area of application should have sufficient materials, equipment and labours.
- 4.2 The mixed materials should be used within 100 minutes @ 25°C and 45 minutes @35°C.
- 4.3 Use brush or lambs wool roller, or airless spray machine to apply the mixed Strongcoat Epoxy onto the prepared surfaces.
- 4.4 Apply 2 coats of Strongcoat Epoxy at the rate of 6.25 m²/kg per coat; second coat should be applied at a right angle to the first coat.
- 4.5 The second coat should be applied within the over coating time depending on the substrate and the ambient temperature to achieve the maximum adhesion between the two coats.
- 4.6 If the over coating time is exceeded; the first coat must be abraded with sand paper prior to the application of the second coat.
- 4.7 Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.



5.0 Cleaning

- 5.1 Tools and equipment can be cleaned with DCP solvent when it is wet, dried Strongcoat Epoxy may be removed mechanically.

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Strongcoat Epoxy**. 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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