

Strongcoat EC50 Method Statement

(High build solvent based epoxy resin coating)

Section A : General Comments

High temperature working

It is suggested that, for temperatures above 30°C, the following guidelines are adopted as good working practice:

- (i) Unmixed materials and equipments should be stored in 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>Protective overalls</i>
	:	<i>Good quality gloves, goggles and face mask</i>
<i>Mixing equipment</i>	:	<i>Slow speed mixing drill, mixing bucket and mixing paddle</i>
<i>Application equipment</i>	:	<i>Airless spray machine or Lambs wool roller and painting brush</i>

Section B : Application

1.0 Surface Preparation

- 1.1 Moisture content of new concrete, or any cementations substrates should be less than 5% or relative humidity should be 75% or less. Normally this range of moisture content can be achieved by concrete age over 28 days.
- 1.2 The substrate should be dry, clean and free from any laitance, wax, grease, dirt and oil or any materials could affect the bond.
- 1.3 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.



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- 1.4 All cracks and spalled concrete should be repaired before starting the application as recommended by our technical department.
- 1.5 All Blow holes and minor imperfection should be repaired with epoxy paste using Quickmast 341.

2.0 Mixing

- 2.1 Use slow speed drill fitted with mixing paddle to mix the components of Strongcoat EC50 (Base and Hardener).
- 2.2 Stir the individual components thoroughly before mixing them together.
- 2.3 Add the entire contents of the Base container to the Hardener container and mix thoroughly for 3 minutes.
- 2.4 Do not mix part of packs under any condition, as this will change the mixing ratio between the Base and Hardener which will affect the material performance.

Note: 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 colour pack and Base for 2 minutes, then add the entire content of the Hardener to the mixture and mix thoroughly for 3 minutes.

3.0 Application

- 3.1 Each independent area of application should have sufficient materials, equipments and labours.
- 3.2 The mixed materials should be used within 1 hour @ 20°C and 40 minutes @35°C.
- 3.3 Use brush or lambs wool roller, or airless spray machine to apply the mixed Strongcoat EC50 onto the prepared surfaces.
- 3.4 Apply 2 coats of Strongcoat EC50 at 3 m²/kg per coat; second coat should be applied at a right angle to the first coat.
- 3.5 The second coat may be applied as soon as the first coat has initially dried; drying time will depend on the substrate and the ambient conditions.
- 3.6 If the over coating time is exceeded; the first coat must be abraded with sand paper prior to the application of the second coat.
- 3.7 Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.
- 3.8 Allow 4 days after applying the final coat for full curing before vehicle traffic and 7 days if there is chemical spillage.

4.0 Slip resistance finish (optional)

- 4.1 Apply first coat of Strongcoat EC50 at the rate of 3 m²/kg and while still wet, fully blind it with Antislip Aggregate #3 and allow to dry.
- 4.2 Remove excess aggregates by vacuum or by sweeping with a stiff brush.



Note: All excess aggregates are suitable for re-use.

4.3 Apply second coat of Strongcoat EC50 at the rate of 2 – 3 m²/kg and allow to dry.

5.0 Cleaning

5.1 Tools and equipment can be cleaned with **DCP-Solvent** when it is wet, dried Strongcoat EC50 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 EC50**. 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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