

Strongcoat ENI00 Method Statement (High performance chemical resistant epoxy novolac lining)

Section A : General Comments

High temperature working

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

- (i) Unmixed materials and equipment should be stored in cool place, dry 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>Personal protection</i>	:	<i>Protective overalls, thick gloves, goggles and face mask</i>
<i>Mixing equipment</i>	:	<i>Slow speed mixing drill, mixing bucket (25 litre) and mixing paddle.</i>
<i>Application equipment</i>	:	<i>Stiff nylon brush, short nap roller or airless spray</i>

Section B : Application

1.0 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 laitance, wax grease, dirt and oil or any materials that could affect the bond.
- 1.3 Suitable Mechanical method such as grinding, light sand/grit blasting, acid etching or any equivalent method should be used to remove any existing old coating or surface treatments like 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.

- 1.4 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 imperfections 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 two components of Strongcoat EN100
- 2.2 Stir the individual components thoroughly before mixing them together.
- 2.3 Add the entire content of the hardener to the base and mix for 3 minutes and until a uniform colour and consistency are achieved.
- 2.4 Do not mix part of packs under any conditions, as this will change the mixing ratio between the hardener and the base which will affect the material performance.

3.0 Application

- 3.1 Priming: Strongcoat EN100 is designed to be used without a primer. However, for highly porous substrates, Strongcoat Primer S is recommended at a rate of 5 m²/kg.
- 3.2 Each independent area of application should have sufficient materials, equipment and labours.
- 3.3 The mixed materials should be used within 30 minutes @ 25°C and 15 min @ 35°C.
- 3.4 Use brush or roller or airless spray machine to apply the mixed Strongcoat EN100 onto prepared surfaces.
- 3.5 Apply first coat of Strongcoat EN100 at a rate of 0.33 kg/m² to achieve 250 micron thickness and allow to dry.
- 3.6 Apply the second coat at a rate of 0.33 kg/m² within the over-coating time of 18 hour @ 23 °C, it should be applied at a right angle to the first coat.
- 3.7 Adequate ventilation must be provided to ensure that a necessary drying and curing of the material is achieved.
- 3.8 Allow 4 days after applying the final coat for full curing before traffic and 7 days if there is chemical spillage.

4.0 Slip resistance finish (optional)

- 4.1 Apply first coat of Strongcoat EN100 at a rate of 0.33 kg/m² to achieve 250 micron thickness and while still wet, fully blind it with Antislip Aggregate 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 EN100 at the rate of 0.53 -1 kg /m² depending on the Antislip Aggregate size used.



5.0 Cleaning

5.1 Tools and equipment can be cleaned **immediately** before curing with clean water. Cured material must be removed mechanically.

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Strongcoat EN100**. 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.



expertise



quality



full range