

Strongcoat PEI Method Statement (Two component high solids coal tar epoxy resin coating system)

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 out of direct sunlight.
- (ii) Plan for enough material, tools and labours to avoid any stop while the application process.
- (iii) Avoid application through peak temperatures of the day.

Equipment

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

Protective clothing	:	Gloves, goggles, face mask and protective overalls
Mixing equipment	:	Slow speed mixing drill, mixing vessel and mixing paddle
Application equipment	:	Airless spray machine or Lambs wool roller and painting brush

Section B : Application

1.0 Surface Preparation

- 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.
- 1.2 Suitable Mechanical method such grinding, light sand/grit blasting 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 t advice for the suitable method for removing the contamination.

- 1.3 All cracks and spalled concrete should be repaired before starting the application as recommended by our technical department.
- 1.4 A 5 cm by 5 cm polymer modified cement base filet should be done at all sharp angles between floors and walls.
- 1.5 All tie rods opening shall be filled with non-shrinkage grout such as Flo-grout 2.
- 1.6 Exposed blow holes should be filled with Quickmast 341.



2.0 Mixing

- 2.1 Use slow speed drill fitted with mixing paddle to mix the two components of Strongcoat PE1 (Base, Hardener).
- 2.2 Stir the individual components thoroughly before mixing them together.
- 2.3 Add the entire contents of the hardener to the base and mix thoroughly for 3 minutes until a uniform colour is achieved.
- 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.

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 120 minutes @ 25°C and 45 minutes @ 35°C.
- 3.3 Use brush or lambs wool roller, or airless spray machine to apply the mixed Strongcoat PE1 onto the prepared surfaces.
- 3.4 Apply 2 coats of Strongcoat PE1 at 0.24 kg/m² per each 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 7 days @ 25°C after applying the final coat for full curing.

4.0 Cleaning

- 4.1 Tools and equipment can be cleaned with **DCP-Solvent** when it is wet, dried Strongcoat PE1 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 PE1**. 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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