

# Strongcoat 500 Method Statement (Solvent base polyurethane resin floor and wall 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:

Protective clothing	:	Protective overalls
	:	Good quality gloves, goggles and face mask
Mixing equipment	:	Slow speed mixing drill, mixing bucket and mixing paddle
Application equipment	:	Airless spray machine or Lambs wool roller and painting brush

# **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 Priming

- 2.1 Stir the individual components thoroughly before mixing them together.
- 2.2 Add the entire contents of the Colour pack into the Hardener container and mix for 2 minutes until a uniform colour is achieved. Add the entire contents of the Base container to the mixed colour pack and Hardener and mix thoroughly for 3 minutes.
- Do not mix part of packs under any condition, as this will change the mixing ratio between the powder and 2.3 the liquid polymer which will affect the material performance.
- 2.4 Apply one prime coat of Strongcoat Primer 10 using brush or lambs wool roller at a coverage rate of 0.167  $kg/m^2$ .

### 3.0 Application

- 3.1 Stir the individual components thoroughly before mixing them together.
- 3.2 Add the entire content of hardener into the base and mix well for 3 minutes.
- 3.3 The mixed materials should be applied within 60 minutes @ 25°C.
- 3.4 Use brush or lambs wool roller, or airless spray machine to apply the mixed Strongcoat 500 onto the prepared surfaces.
- 3.5 Apply 1 or 2 coats of Strongcoat 500P at the rate of 0.145 kg/m<sup>2</sup> per coat.
- 3.6 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.
- 3.7 If the over coating time is exceeded; the first coat must be abraded with sand paper prior to the application of the second coat.
- 3.8 Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.
- 3.9 Allow 4 days after applying the final coat for full curing before vehicle traffic and 7 days if there is chemical

#### 4.0 Cleaning

Tools and equipment can be cleaned with **DCP-Solvent** when it is wet, dried Strongcoat 500 may be 4.1 removed mechanically.







# Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Strongcoat 500**. 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.

