

Strongcoat WD Method Statement (Water based epoxy resin floor and wall coating)

Section A : General Comments

High temperature working

The following measures should be adopted if the ambient temperatures exceeding 35°C:

- (i) Unmixed materials and equipment should be stored in a cool place away from direct sunlight.
- (ii) Plan for enough material, tools and labour to avoid any interruption at 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:

<i>Protective clothing</i>	:	<i>Gloves, goggles, face mask and protective overalls</i>
<i>Mixing equipment</i>	:	<i>Slow speed mixing drill, mixing bucket (25 litre) and mixing paddle</i>
<i>Application equipment</i>	:	<i>Airless spray machine, lambs wool roller or brush</i>

Section B : Application

1.0 Surface Preparation

- 1.1 Moisture content of new concrete, or any cementations substrates should be less than 4% or relative humidity less than 80%. 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 contamination which could affect the bond.
- 1.3 Suitable mechanical method such as grinding, light sand/grit blasting, acid etching or an 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 for advice on a 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 imperfection should be repaired with epoxy paste using Quickmast 341.



expertise



quality



full range

2.0 Mixing

- 2.1 Stir the individual components thoroughly before mixing them together.
- 2.2 Use slow speed drill fitted with mixing paddle to mix the three components of Strongcoat WD (Base, Hardener and colour pot).
- 2.3 Add the entire contents of the colour pack into the base container and mix with heavy duty drill for 2 minutes until a uniform colour is achieved.
- 2.4 Add the entire contents of the hardener container to the mixed colour pack and base and mix thoroughly for at least 3 minutes.
- 2.5 Do not mix part of packs under any conditions. This will change the mixing ratio between the hardener and the base which will affect the materials performance.

3.0 Priming

- 3.1 Porous substrate should be primed using Strongcoat WD diluted with 10% (by volume) with clean water.

4.0 Application

- 4.1 Each independent area of application should have sufficient materials, equipment and labour.
- 4.2 The mixed materials should be used within 2 hours at 20°C and 1 hour at 35°C.
- 4.3 Use brush, lambs wool roller or airless spray machine to apply the mixed Strongcoat WD onto the prepared surfaces.
- 4.4 Apply first coat of Strongcoat WD at 0.17 kg/m² to achieve 70 microns thickness and allow to dry for a minimum of 6 hours at 20°C or 4 hours at 35°C and maximum of 24 hours at 20°C or 16 hours at 35°C.
- 4.5 Apply the second coat of Strongcoat WD at 0.17 kg/m²; it should be applied at a right angle to the first coat.
- 4.6 Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.
- 4.7 Allow 7 days after applying the final coat for full curing at 20°C or 6 days at 35°C.

Note: IF over coating time is exceeded, the first coat can be abraded with sand paper prior to the application of the second one.

5.0 Cleaning

- 5.1 Tools and equipment can be cleaned with water when it is wet, dried Strongcoat WD 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 WD**. 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.