

## Strongcoat SL1 Method Statement

(0.5 to 1.5 mm thick epoxy self leveling topping for floor surfaces)

### 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 equipment 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 mixer, mixing bucket (25 litre) and mixing paddle</i>
<i>Application equipment</i>	:	<i>Pin leveler, spike roller and Lamb wool roller</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 or chemical method like the Acid etching (only in well ventilated areas) should be used to remove any existing laitance, 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.*

- 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 should be repaired with proper (Epoxy or cementitious) repair materials it depends on hole size of the hole and type of traffic on such area.
- 1.6 All blow holes and minor imperfection should be applied by epoxy paste using Quickmast 341.

## 2.0 Priming

- 2.1 Clean the substrate from any traces of dust or any loose materials.
- 2.2 Use slow speed drill fitted with mixing paddle to mix the two components of Strongcoat Primer (Base and Hardener).
- 2.3 Stir the individual components thoroughly before mixing them together.
- 2.4 Pour the liquid Hardener to the Base and start mixing using the mentioned mixer.
- 2.5 The mixed materials should be used within 1 hour @ 20°C and 40 minutes @35°C.
- 2.6 Use lambs wool roller to apply the mixed Strongcoat Primer onto the prepared surfaces.
- 2.7 The primer should be covered by Strongcoat SL1 within 24 hours, If the over laying time is exceeded; the primer must be abraded with sand paper prior to the application of Strongcoat SL1.

## 3.0 Mixing

- 3.1 Prior to mixing, stir the individual components of Strongcoat SL1, making care to ensure that the bottom and sides are thoroughly scraped.
- 3.2 Transfer the entire contents of the Base and Hardener into a separate mixing container.
- 3.3 Use a Jiffy-type mixer attached to a slow-running electrical drill and mix the components for approximately 2 minutes.
- 3.4 Once mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.
- 3.5 Start the mixer and transfer to it the entire contents of the Strongcoat SL1 Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.
- 3.6 Do not mix part of packs under any condition, as this will change the mixing ratio between the powder and the liquid polymer which will affect the material performance.

### Notes:

- *Never mix Strongcoat SL1 by hand as this could lead to areas of uncured material.*
- *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 Base, Hardener and colour pack using same procedure above (3.1-3.4), then add the filler component according to point 3.5.*



#### 4.0 Application

- 4.1 Each independent area of application should have sufficient materials, equipments and labours.
- 4.2 Once mixing is completed, pour and spread Strongcoat SL1 to the primed surface at the required thickness with the aid of pin leveler.
- 4.3 Care should be taken when joining the lanes, to achieve smooth connection.
- 4.4 **Immediately** after spreading the epoxy, thoroughly roll the surface by using spike roller to release any entrapped air and to get smooth finish.
- 4.5 Allow 4 days after applying the final coat for full curing before vehicle traffic and 7 days if there is chemical spillage.

*Note: The material may form crystals when stored at temperatures below 10°C, in such cases, conditioning for 1 - 2 days at temperatures between 30 - 35°C with simple manual mixing is needed before application.*

#### 5.0 Cleaning

- 5.1 Tools and equipment can be cleaned with **DCP-Solvent** when it is wet, dried Strongcoat SL1 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 SL1**. 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.