Strongcoat HD Method Statement

(Heavy duty solvent free coal tar modified epoxy based flooring system)

Section A : General Comments

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 ace mask*
Mixing equipment	:	*Casco or Creteangle-type mixer*
Application equipment	:	*Rake, lambs wool roller*

Section B : Application

1.0 Surface Preparation

1.1 Concrete floors must have a minimum compressive strength of 25 N/mm².

1.2 Concrete relative humidity should be 80% or less. Normally this range can be achieved by concrete age over 28 days. For low W/C ratio concrete floors, 80% hygrometer reading or less can be achieved before 28 days age.

1.3 When applied to steel substrates, all surfaces should be clean and free from rust and scale. Make sure that the surfaces are grit blasted to reach a bright finish meets the requirement of Swedish Standard to a minimum of SA 2½ grade.

1.4 Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment.

1.5 Steel For deeply contamination by oil or grease, such areas should be treated with hot compressed air.

2.0 Priming

2.1 Concrete and steel substrates should be primed with Strongcoat Primer/Primer S.

2.2 Use lamb's wool roller to apply the primer.

2.3 The primer should be allowed to cure for 24 hours.

Note: More than one coat may be required for highly porous or textured surfaces.

3.0 Mixing

3.1 Make sure that the materials to be used are stored in shaded area and protected from extremes of temperatures for at least 24 hours prior to application to avoid inconsistent workability and pot life.

3.2 Prior to mixing, stir the liquid components of Strongcoat HD (base & hardener).

3.3 Add the entire contents of the base and hardener to a Casco or Creteangle type mixer and mix thoroughly for at least 3 minutes.

3.4 Add the filler and mix until a homogenous mixture is formed, this will take about 4 - 5 minutes.

4.0 Application

4.1 Work in lanes of width not exceeding 3 m.

4.2 Spread the slurry on the prepared surface by rake, at coverage 6.1 kg/m^2 at 3.5 mm thickness, and 9.6 kg/m^2 at 5.5 mm thickness.

4.3 Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while Strongcoat HD is still wet.

4.4 Dressing the silica aggregate should be applied **immediately** after laying of Strongcoat HD slurry.

4.5 Aggregate should be allowed to fall vertically until the surface is saturated and totally covered.

4.6 The following coverage rates should be followed: 5 - 6 kg/m^2 using Antislip Aggregate #2, and 6.5 - 7.5 kg/m^2 using Antislip Aggregate #0.

4.7 Remove excess aggregate after initial curing of Strongcoat HD. Excess aggregates can be reused if not contaminated during removal.

Notes:

- *Strongcoat HD should not be applied on to surfaces known to suffer from damp rising.*
- *Ramps should be treated with bigger size silica aggregates.*
- *Strongcoat HD should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.*

5.0 Cleaning

5.1 Tools and equipment can be cleaned with DCP solvent prior to setting.

Section C : Approval and variations

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