

Strongcoat UN201 Method Statement (Epoxy roller coating and self-levelling topping)

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 stoppage during 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	:	Stirring stick, slow speed mixing drill and mixing paddle, mixing bucket (25 litre)-, and Casco or Creteangle-type mixer
Application equipment	:	Brush, roller, or squeegee, rake, and spiked roller (depending on the system required)

Section B : Application

1.0 Surface Preparation

- 1.1 Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces.
- 1.2 Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Acid etching can be used after consulting with DCP's Technical Department.
- 1.3 Surface defects such as voids and blowholes should be repaired before application. Consult DCP's Technical Department for the best repair material.
- 1.4 Surfaces must be free of any dust or loose particles before product application. Use suitable methods like vacuuming or sweeping.
- 1.5 If possible, apply the product on a small test area before actual application to check for any problems with the surface preparation.





2.0 Mixing

- 2.1 Prior to mixing, stir individual components of Strongcoat UN201.
- 2.2 Add the Strongcoat UN201 hardener to the base and using a jiffy-type mixer attached to a slow running electric drill, mix for approximately 2 minutes.
- 2.3 In case the addition of Strongcoat UN201 Filler (quartz sand) is required, once the Strongcoat UN201 hardener and base have been mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.
- 2.4 Start the mixer and transfer to it the entire contents of the Strongcoat UN201 Filler and Don Extender if necessary, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

Note: Never mix Strongcoat UN201 by hand as this could lead to areas of uncured material.

3.0 Priming

- 3.1 For surfaces with RH between 75 and 85%, prime with one coat of Strongcoat DPM and allow to dry prior to application of Strongcoat UN201.
- 3.2 For surfaces with RH equal to or greater than 86%, prime with two coats of Strongcoat DPM and allow the second coat to dry before priming with Strongcoat UN101.
- 3.3 Strongcoat UN101 can be applied using a brush, roller or squeegee to obtain a continuous primer coat. If needed, apply an additional coat of Strongcoat UN101, and allow to dry before the primer is covered with other flooring systems.

4.0 Application

4.1 Coatings

- 4.1.1 Apply Strongcoat UN201 as coating using a roller or brush to the required thicknesses.
- 4.1.2 To obtain a smooth roller coating, no quartz sand should be added, the resin would yield a coverage rate of 0.30 0.35 kg/m²/coat.
- 4.1.3 To obtain a textured roller coating, no quartz sand should be added but Don Extender should be added at 0.015 pbw, the mix would yield a coverage rate of 0.50 0.80 kg/m²/coat.
- 4.1.4 To obtain a coarser roller coating with improved slip resistance, 0.1 0.8 mm Strongcoat Filler
 #3 should be used and the resin : sand mixing ratio should be 10 : 1 (plus 0.015 Don Extender), to yield a coverage rate of 0.6 0.9 kg/m²/mm.







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- 4.2 Self-leveling floor toppings
 - 4.2.1 For a 1 mm self-levelling floor topping, Strongcoat Filler #5 having a top cut of 0.1 mm shall be used at a resin : sand mixing ratio of 1:0.4, to yield a coverage of 1.65 kg/m²/mm.
 - 4.2.2 For a 1.5 3 mm self-levelling floor topping, 0.1 0.8 mm Strongcoat Filler #4 shall be used at a resin : sand mixing ratio of 1:1, to yield a coverage of 1.95 kg/m²/mm.
 - 4.2.3 Pour the mixed material onto the primed surface and spread using a trowel or rake at the required thickness and allow to attain a smooth finish. While still wet, thoroughly spike roll Strongcoat UN201 to help eliminate the entrapped air.
- 4.3 Broadcast system
 - 4.3.1 Medium thickness self-levelling mortar shall be obtained by adding 0.1 0.3 mm Strongcoat Filler #4 to the resin at a resin : sand mixing ratio of 1:1, to yield a coverage of 1.95 kg/m²/mm.
 - 4.3.2 After the surface has been primer using Strongcoat UN101, and after that the primer is tack free, Pour the mixed material of the medium thickness self-levelling floor topping onto the primed surface and spread using a trowel or rake at the required thickness and allow to attain a smooth finish. While still wet, thoroughly spike roll Strongcoat UN201 to help eliminate the entrapped air.
 - 4.3.3 While still wet, broadcast with Antislip Aggregate #2 or #3 to excess at 6 kg/m² and wait until it gets dry, then remove excess aggregate.
 - 4.3.4 For the Strongcoat UN201 sealcoat, no quartz sand should be added, the resin would yield a coverage rate of 0.5 kg/m².
 - 4.3.5 Apply the Strongcoat UN201 sealcoat with a roller at the required thickness.

5.0 Cleaning

5.1 Tools and equipment can be cleaned with DCP-Solvent when it is wet, dried Strongcoat UN201 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 UN201**. 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.