

Method Statement for Application “SIKA EGYPT”

Sikadur-31CF

Scope: Chemical Anchoring using *Sikadur 31CF* (Epoxy resins, solvent free, thixotropic, two components adhesive and repair & anchoring mortar).

Preliminary Works and surface preparation

- 1.1 Clean out surfaces, using small wire brushes or compressed air to remove all loose and friable materials, as well as mud and other impurities.
- 1.2 All concrete surfaces must be clean, free from standing water and all loosely adhering particles. Concrete must be full cured at least 3 - 4 weeks old, depending on climate.
- 1.3 Make sure the concrete has dried prior the application with Sikadur 31CF.

Repair application



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2. Drilling holes / general information

- From structural design No. of dowels determined and the holes for dowels to be drilled with the following specifications.
- Hole diameter (annular space around dowel) should not exceed 3.5mm
- Depth of embedment is 6-12 times the dowel diameter (Depending on required design loads)
- Minimum concrete base material thickness must be 1.5 times the anchor embedment depth.

3. Execution

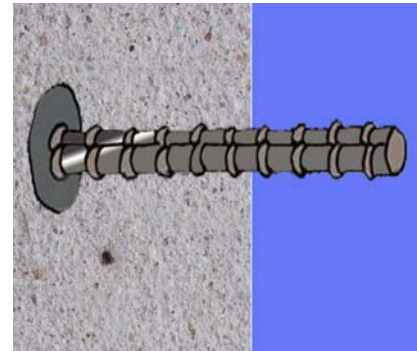
1 Mixing and Application

- 3.1 Mix the resin material Sikadur 31CF according the instruction to use (see data-sheet) recommended mechanical mixing with electrical stirrer (300-600 rpm) and using the correct Sika mixing paddle (disc type) and apply only while the material is in its Pot life time (approx. 50 minutes at 30 Deg. Celsius).



- 3.2 The method to apply is by filling with Sikadur 31CF one third of the embedded length using suitable technique (Using Sika gun or manually using spatula).
- 3.3 Apply Sikadur 31CF to the dowel embedded length using spatula, and then simply insert the dowels in spiral motion into the drilled holes, the excess material of Sika dur 31CF will raise up. Remove the surplus resin from the concrete surface, and finish to a smooth texture by hand.





Construction

- 3.4 Keep dowels undisturbed for 24-48 hours (depends on ambient temperature). To get the required strength for concreting.
- 3.5 The full strength of the dowels can be achieved after 10 days at 20 Deg. Celsius

For any further clarification don't hesitate to contact Sika Egypt Technical Department.

**Sika Egypt
Technical Department**

