

ANCHORING OF REINFORCEMENT RODS WITH CEMENT-BASED MORTAR

Anchors and grouting

APPLICATION DATA SHEET

Anchoring of reinforcement rods with cement-based mortar prior:

1. drilling;
2. grouting.

1A) DRILLING (WITH CEMENT GROUT)

Drill holes with suitable equipment and clean them with compressed air jets. The hole's diameter should be at least 20 mm bigger than the diameter of the reinforcement rod to be anchored, the cement cover layer must be at least 10 mm thick. Soak the area to be treated eliminating any pools of water on the surface (s.s.d. condition).

1B) DRILLING (WITH RESINS IN CARTRIDGE)

Drill horizontal or above-head holes with suitable equipment and clean them with compressed air jets. The hole's diameter should be at least 20 mm bigger than the diameter of the reinforcement rod to be anchored, the cement cover layer must be at least 10 mm thick. Substrate and holes must be dry in order to guarantee the proper curing of the resin.

2A) GROUTING (WITH CEMENT GROUT)

Insertion into the holes previously made of metal reinforcements and anchoring by the injection of high resistance pre-mixed expansive slurry Betonfix 200, respecting the consumption rate indicated in the Technical Sheet.

Prepare initially only 3/4 of the water required, then add the product and the remaining water continuously until you obtain the consistency required. Mix the product for about 5 minutes with a cement-mixer or, for small quantities, with a mechanical stirring device and an agitator.

If the holes are shorter than 40 cm proceed with gravity casting.

In case of consolidating injections or if the holes are longer than 40 cm, place the reinforcement bar and fill the hole placing two plastic tubes. One will go down to a depth of

about half of the hole and will be used to inject the mixture; the other one, with a "control function", will allow the coming out of the air from the hole and will indicate the complete filling of the cavity.

2B) GROUTING (WITH RESINS IN CARTRIDGE)

Insertion into the holes previously made of metal or synthetic reinforcements and anchoring by the injection of two-component, thixotropic, polyester resin-based chemical anchoring agent Kimitech F3.

Remove the cap from the cartridge, slide the locking pins to the open position, screw the mixing nozzle, then insert the cartridge into the extrusion gun.

Squeeze the material out of the spout until it has a uniform dark color (a few centimeters of extruded product are enough), then continue with the procedure.

POSSIBLE ALTERNATIVES

As an alternative to Kimitech F3 it is possible to use: Kimitech EPOXY CTR, epoxy resin or Kimitech VINYL CTR, vinyl ester resin.