

## High Tech 310 FF

**Bemix High Tech 310 FF is easy to apply by hand or with suitable pumping equipment. Used for jointing of concrete elements and natural stone where a joint with good seal and high adhesion is required. Also suitable for smaller filing jobs where formwork cannot be used. Cures in minus degrees. Meets the requirements of EN 1504-6.**

### Work description

#### Preparation:

The concrete substrate must be clean and free of dust, damaged concrete, grease or other contaminants that may impair adhesion. Substrate with a roughened and raw surface with closely spaced irregularities provide better adhesion. Clean the substrate carefully and if possible pre-water 24 hours before casting. Remove surface water immediately before casting. Do not water when casting in minus degrees. At freezing temperatures, the surface must be defrosted, and ice and melt water removed.

#### Mixing:

Do not mix by hand. The best mixer is a rapid mixer type Rojo 50, automatic mixer or flat mixer. For smaller quantities, mixing with a drill and mixer attachment works well. Mix to an even and clump-free consistency. Always pour in the water first. Use a graduated mixing vessel and ensure that the temperature of the mix is 20°C. The mixed concrete must be used within 20 minutes.

#### Application advice:

The mortar is applied manually and carefully packed or can also be pumped with a purpose-designed concrete pump. Ensure that joints and underpourings are always completely filled so as to avoid cavities.

#### After treatment:

Semi-hardened material can be adjusted with a trowel. Free and unprotected surfaces are protected immediately after casting so that shrinkage and dehydration cracks do not occur. At air temperatures below 5°C, curing may take place by remaining form or covering without water addition and may last the entire first week. Watering should not be done when casting in minus degrees.

#### Anchorage:

The work must be carried out according to EN 1504-10 and the surface structure and cleanliness of surfaces in anchoring holes and slots must comply with 7.2.2, 7.2.3 and 7.2.5 and shall be suitable for the anchoring material.

Drilling is done at an angle to the surface, including for vertical surfaces. The drill hole should be the diameter of the item to be embedded plus 10 mm and the drill used must meet the requirements according to 1504-10 and also EN 1881 and create a surface roughness of the concrete substrate. When a hole has been drilled, it is cleaned out with compressed air and finally carefully plugged

before the next hole is drilled. The drill hole is filled with water at least 24 hours before installation. Clean out the hole with compressed air immediately before installation. There must be no free water in the hole before installation. After the hole has been blown clean, installation must be done immediately. The bolt to be embedded must be free of loose rust, oil, grease or other contaminants.

#### Installation:

The concrete is injected into the drill hole with a Bemix concrete pump or manually with a Bemix concrete injector. For installation in sub-zero temperatures use Bemix High Tech 310 FF. The bolt is then pushed carefully down into the hole with a backwards and forwards motion so that air bubbles are pressed out of the concrete. The entire hole must be full of concrete after the bolt has been installed. The bolt is held in place for support. The support must not be allowed to get stuck.

#### After curing:

When after treatment is done protect free surfaces from drying out. Apply a water mist and protect with plastic sheeting. Keep damp for the whole first week. The support can be dismantled the day after casting. Watering should not be done when casting in minus degrees.

### Technical data

**Finja cannot be held responsible for information other than that given in Technical data being correct. Conditions that are outside Finja's responsibility can be e.g. handling, treatment, working methods, possible reactions with other materials and local conditions at the storage or workplace. For current information always refer to [www.finja.se](http://www.finja.se)**

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The logo for FINJA, featuring the word "FINJA" in a bold, stylized, sans-serif font. The letters are black with a white outline, and the "I" and "J" have a unique, slightly irregular shape. The logo is positioned in the bottom right corner of the page.

General		
Property	Value	Method
Consumption	25 kg gives about 12.5 l of mix	
Binder type	Cement CEM I 52,5 R	
Stone max	1 mm	
Rec.layer thickness jointing	5–40 mm non reinforced	
Rec.layer thickness other applications	5–20 mm non reinforced	
Max water quantity	3.75 litres/ 25 kg	
WCR with max water quantity	0.39	
Rec.Lowest application temperature	-10°C (Weather and wind must always be taken into account)	
Fresh mortar		
Property	Value	Method
Usable time at 20°C	Approx 30 min	
Begins to set after	Approx 2 h	
Cured mortar		
Property	Value	Method
Compressive strength at 20 °C		
After 24 hours	>25 MPa	EN 12190
After 28 days	>50 MPa	EN 12190
Compressive strength -10 °C		
After 3 days	>10 MPa	EN 12190
After 28 days	>25 MPa	EN 12190
Watertight	Yes	SS 137003:2015
Exposure class	XC4/XS3/XD3/XF3/XA1	SS 137003:2015

## Packaging

The product is supplied as standard in 25 kg sacks.

## Storage

Use within 12 months of the date of manufacture given on the pack. Store in a dry place.

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