

## Fin

**Bemix Fin is an expanding underpouring grout for when a finer ballast is needed. Running consistency, good pumpability. Use for machine underpouring and anchorage. Pumpable, expanding cement that is used for underpouring and embedding. Anchorage of bolts and reinforcement. Use for railing posts, machine underpouring, bolt anchorage or anchoring reinforcement where a thinner layer is desired. Approved for concrete repairs according to EN 1504-6.**

### Work description

#### Casting

##### 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.

##### 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 grout must be used within 20 minutes.

##### Casting:

The mix must be poured into the formwork continuously and as quickly as possible. There must be no interruptions until casting is finished. The grout should only be poured into the formwork from one side so as to avoid air pockets. Ensure that the formwork does not leak. Where large areas are to be underpoured, the grout should be pumped on site for the best result.

##### Reinforcement:

To avoid cracks etc. due to drying out, reinforcing steel is laid in the grout in cases such as: with thick underpourings, when the underpouring is long such as with rail underpouring, when the underpouring goes outside the slab, with in-situ casting or where there is a risk of rapid drying out. The reinforcement is laid in the formwork before casting with the recommended covering layer.

##### After treatment:

Grout that needs to be removed is scraped off with a finishing trowel once it has hardened sufficiently. The work can be made easier by pushing a sheet of metal down onto the grout to form a limitation and assist chiselling.

##### After-curing:

When after treatment is done protect free surfaces from drying out. Use a water mist and lay wet rags, sawdust or sand. Alternatively, protect with plastic sheeting. Keep damp for the whole first week. After formwork is removed, exposed surfaces can be protected with membrane insulation.

##### Removing formwork:

If there is a risk of drying out the formwork should remain in place for a week. Otherwise the formwork can be removed the day after casting.

#### 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.

**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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#### Installation:

With vertical holes, the grout is held down in the hole with the aid of a funnel, for example. 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 grout. 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 treatment:

The support can be dismantled the day after casting. After-curing: When after treatment is done protect free surfaces from drying out. Use a water mist and lay wet rags, sawdust or sand. Alternatively, protect with plastic sheeting. Keep damp for the whole first week. After formwork is removed, exposed surfaces can be protected with membrane insulation.

## Technical data

General		
Property	Value	Method
Consumption	25 kg gives approx 12.5 litres of concrete mix	
Binder	Cement CEMII/A-V 52,5N, CEMI 52,5 R	
Stone max	1 mm	
Recommended cast thickness	5–40 mm	
Max water quantity	4,0 litres / 25 kg	
WCR with max water quantity	< 0,40	
Rec.Lowest application temperature	≥ +5°C (Weather and wind must always be taken into account)	
Rec.Highest application temperature	< +30°C (Weather and wind must always be taken into account)	
Fresh mortar		
Property	Value	Method
Consistency after 5 min	≥ 380 mm	SP-method 1651
Water separation	0	SS 13 75 31
Volume increase	> 0 %	SS 13 75 31
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	> 60 MPa	EN 12190
Watertight	Yes	SS 137003:2015

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Frost resistance, 56 cycles, flaking	Very good	SS 13 72 44:2005 1 A
Exposure class	XC4/XS3/XD3/XF4/XA1	SS 137003:2015

## Packaging

The product is supplied as standard in 25 kg sacks but can also be obtained in 1000 kg big sacks.

## Storage

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