

Bemix F4

Bemix F4 is a thixotropic, expanding, pumpable jointing compound. It is used for sealing and jointing concrete elements and granite blocks. With its thixotropic consistency, it is the first choice for vertical joints. Easily applied with pumping equipment or by hand. Also suitable for horizontal joints and other types of cast joints.

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 free water just before casting.

Mixing:

Is done mechanically for approximately 5 minutes in a slow-action mixer, such as a flat or free-fall mixer. Smaller quantities can be mixed with a mixer attachment. The concrete mix should have a temperature of approximately 20°C. Compensate cold dry material with warm water and vice versa. In sub-zero temperatures use Bemix F4 FF.

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. After casting, the surface can be moisture-cured with a thin, light mist of water, but that cannot mechanically damage the mortar. At air temperatures above 5°C, curing may take place with remaining form, covering or supply of water and may last the entire first week. As soon as the surface hardens, it can be watered and covered.

Technical data

General		
Property	Value	Method
Consumption	25 kg gives approx 12.5 litres of concrete mix	
Binder	Cement CEM II/A-LL 42,5R	
Stone max	1 mm	
Recommended layer thickness	5–50 mm non reinforced	
Max water quantity	4.0 litres / 25 kg	
WCR with max water quantity	0,43	
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

Bemix cannot be held responsible for information other than that given in Technical data being correct. Conditions that are outside Bemix 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.bemix.se

Usable time at 20°C	Approx 30 min	
Begins to set after	Approx 2 h	
Expansion after 1 and 24 hours	0,5-2 %	
Air content	> 5 %	SS EN 1015-7
Cured mortar		
Property	Value	Method
Compressive strength at 20 °C		
After 24 hours	> 20 MPa	EN 12190
After 28 days	> 40 MPa	EN 12190
Watertight	Yes	SS 137003:2015
Shrinkage (‰)	<2‰	SS-EN12390
Adhesion strength	> 1,5 MPa	SS EN 1542
Frost resistance, 56 cycles, flaking	Very good (<0.10 kg/m²)	SS137244:2019 1B
Fire class	A1	
Exposure class	XC4, XD2, XF3, XA1	SS 137003:2015

Packaging

The product is supplied as standard in 25 kg bags and in 1000 kg big bags. The 25 kg bags consists partly of recycled plastic and will be recycled as soft plastic or according to local instructions in the municipality.

Storage

25 kg bags will be used within 24 months of the date of manufacture given on the pack. Store in a dry place. Big Bags use within 6 months from the date of manufacture.