

F4 FF

Bemix F4 FF 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. Cures in minus degrees without heating.

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:

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.

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.

Technical data

Property	Declared value	Method
General		
Binder	Cement CEM II/ALL 42,5R	
Consumption	25 kg gives about 12.5 litres of mix	
Recommended layer thickness	5–50 mm non reinforced	
Max water addition	4,0 l per 25 kg	
WCR with max water addition	0,43	
Rec.Lowest application temperature	-10°C (Weather and wind must always be taken into account)	
Property	Declared value	Method
Fresh mortar		
Usable time at 20°C	Approx 30 min	
Setting time	Approx 2 h	
Expansion after 1 and 24 hours	0-1%	

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

Air content	> 5	SS EN1015-7
Property	Dedared value	Method
Cured concrete		
Compressive strength at 20°C		
After 24 hours	> 20 MPa	EN12190
After 28 days	> 40 MPa	EN 12190
Compressive strength at -10°C		
After 3 days	> 5 MPa	EN12190
After 28 days	> 20 MPa	EN 12190
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 environment	XC4, XD2, XF3, XA1	SS137003:2015

Packaging

The product is supplied in 25 kg bags and in 1,000 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

Use within 24 months of the date of manufacture given on the pack. Store in a dry place. Use Big Bag within 6 months.