

Elementfogbruk

Bemix Elementfogbruk is a pumpable expanding mortar for jointing and underpinning of prefabricated concrete elements.

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.

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.

Mixing:

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.

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. At minus degrees, use Bemix Elementfogbruk Winter or Elementfogbruk FF.

Technical data

General		
Property	Value	Method
Consumption	25 kg gives about 12.5 litres of mix	
Binder type	Cement CEM II/A-V 52,5N	
Stone max	4 mm	
Recommended cast thickness	20–150 mm	
Water quantity	3.15–3.35 litres / 25 kg	
WCR with max water quantity	0,45	
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

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Expansion	0,2-2 %	
Usable time at 20°C	Approx 30 min	
Begins to set after	Approx 2 h	
Air content	> 3 %	SS EN 1015-7
Cured mortar		
Property	Value	Method
Compressive strength	> 50 MPa	EN 12190
Watertight	Yes	SS 137003:2015
Shrinkage (%)	<2‰	SS-EN12390
Frost resistance, 56 cycles, flaking	Verygood (<0.10 kg/m ²)	SS137244:2019 1B
Exposure class	XC4, XD2, XF3, XA1	SS 137003:2015

Packaging

The product is supplied in 25 kg bags and in 1,000 kg big sacks. The 25 kg sack consists partly of recycled plastic and recycle 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.

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