

Elementfogbruk Vinter

Bemix Elementfogbruk Vinter is a pumpable expander mortar for jointing and underpinning of prefabricated concrete elements at freezing temperatures.

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.

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. Watering should not be done if applying in sub-zero temperatures.

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

General		
Property	Value	Method
Consumption	25 kg gives about 12.5 litres of mix	
Binder	CEMII/A-LL 42,5R	
Stone max	4 mm	
Recommended layer thickness	20–100 mm non reinforced	
Max water quantity	3.35 litres / 25 kg	
WCR with max water quantity	0.42	
Rec.Lowest application temperature	-10°C(Weather and wind must always be taken into account)	
Fresh mortar		
Property	Value	Method
Expansion	0-1 %	
Usable time at 20°C	Approx 30 min	

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

Begins to set after	Approx 2 h	
Cured mortar		
Property	Value	Method
Compressive strength 28 days 20 °C	> 40 MPa	EN 12190
Compressive strength 28 days -10 °C	> 17 MPa	EN 12190
Watertight	Yes	SS 137003:2015
Shrinkage (%)	<2‰	SS-EN12390
Frost resistance, 56 cycles, flaking	Very good (<0.10 kg/m ²)	SS137244:20191B
Fire class	A1	
Exposure class	XC4, XD2, XF3, XA1	SS 137003:2015

Packaging

The product is supplied as standard in 25 kg bags but can normally also be obtained 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

Use within 24 months of the date of manufacture given on the pack. Store in a dry place. Big bags that are stored dry and covered should be used within 6 months from the date of manufacture.