

Elementfogbruk Vinter

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

Work description

Application advice:

The surfaces of the joints should be clean and free of dust, damaged concrete, grease or other contaminants that could impair adhesion. Pre-water for at least 24 hours. Remove surface water immediately before casting. Rough surfaces give better adhesion. The concrete is applied manually and carefully packed. The concrete 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 finishing trowel. Free and undamaged surfaces should be treated immediately after casting with a thin, light misting of water that cannot mechanically damage the material. As soon as it is hard, water carefully and cover with plastic. Keep the concrete damp for at least a week after application and try to keep an even temperature of 15°C while it is curing. Sub-zero temperature: after treatment should not be done if applying in sub-zero temperatures. Winter application: The mix hardens and cures without heating even if the temperature of the mix itself drops well below 0 °C.

Technical data

General		
Property	Value	Method
Consumption	25 kg gives about 12.5 litres of mix	
Binder	CEM II/A-V 52,5N alt CEM II/A-LL 42,5R	
Stone max	4 mm	
Recommended cast thickness	20–100 mm	
Max water quantity	3.15–3.35 litres / 25 kg	
WCR with max water quantity	0.42	
Fresh mortar		
Property	Value	Method
Expansion	Approx 0.5 %	
Usable time at 20°C	Approx 30 min	
Begins to set after	Approx 2 h	
Cured mortar		

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

Property	Value	Method
Compressive strength 28 days 20 °C	> 40 MPa	EN 12190
Compressive strength 28 days -10 °C	> 20 MPa	EN 12190
Watertight	Yes	SS 137003:2015
Exposure class	XC4, XD2, XF3, XA2	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 with in 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.