

# JOINTING

## Bemix Elementfogbruk FF

Bemix Elementfogbruk FF is an expanding cement that is used for simple castings, joints and underpourings in sub-zero temperatures. The product is pumpable and can be used for filling cavities and underpouring for pillars and machines. Can also be used for other types of casting work such as stairs, foundations and supporting walls.

### Work description

**Application advice:** The surfaces of the joins 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	Cement	
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	0.48	
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		
Property	Value	Method
Pressure resistance 28 days 20 °C	> 40 MPa	EN 12190
Pressure resistance 28 days -10 °C	> 20 MPa	EN 12190
Water seal	Yes	SS 137003:2015
Exposure class	XC4/XF1/XA1	SS 137003:2015

## Packaging

The product is supplied as standard in 25 kg sacks but can normally also be obtained in 1000 kg big sacks.

## Storage

Use within 12 months of the date of manufacture given on the pack. Store in a dry place.

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