ELEMENTFOG TIX

Thixotropic mortar for filling element joints



WHERE TO USE

Vertical joints between pre-caste concrete elements without use of shuttering. Can also be used on horizontal joints. Ideal for other uses where a high degree of firmness and thixotropic properties are required.

Some application examples

- Jointing between precast concrete elements.
- Jointing masonry walls.
- Jointing lightweight concrete elements.
- Filling non-movable joints.
- Filling depressions, bar holes, joints between old and new concrete.

TECHNICAL CHARACTERISTICS

Elementfog Tix is a fibre-reinforced, shrinkage-compensated, pumpable special mortar with thixotropic properties. Its composition is based on cement, well-graded sand, expanding and stabilising additives. Mixed with water, **Elementfog Tix** becomes an easily-workable thixotropic mortar, which does not creep even when applied thickly in vertical joins. The product can be easily and traditionally applied by hand.
Elementfog Tix adheres well to concrete, provided it is free of dust and slightly porous.

RECOMMENDATIONS

- **Elementfog Tix** should not have cement or other substances added.
- Do not add water once binding has started.
- Do not use **Elementfog Tix** at temperatures below +5°C.
- Do not use **Elementfog Tix** if the packaging is damaged or it has been opened earlier.

GUIDELINES BEFORE USE

- Remove damaged and loose concrete for a firm surface.
- Remove dust, loose particles, grease, form release agents and old paint.
- **Elementfog Tix** should be applied to a damp surface. Avoid any pools of water.

TECHNICAL INFORMATION FOR THE APPLICATION	
Mixing ratio:	100 kg of **Elementfog Tix** 17 l of water (approx. 3.4 l per 20 kg sack)
Max. layer thickness for each application:	50 mm
Application temperature range:	surrounding and substrate temperature from +5°C to +35°C
Pot life of mix:	approx. 45 minutes (at +20°C)

MIXING

Elementfog Tix only requires water, approx. 3.4 litres per 20 kg sack. Mix for at least 3 minutes. Do not add more water than recommended. Too much water will reduce adhesion and give a poor result. Depending on the quantity, pumps, forced mixers or drill and whisk can be used.
Instructions for the preparation of the mortar to create samples for Lab testing are contained in the TECHNICAL DATA table.

APPLICATION

Apply the mortar into the joint using suitable pumping equipment, or manually using a trowel, and smooth over to finish. Shuttering is not required even in vertical joints, and the mortar can be built up to a thickness of 50 mm. Shuttering can be used on one side for open-sided joints. Jointing can be finished off using **Monofinish** or **Mapelastic**. Finished surfaces can be painted using **Elastocolor Paint**.

CONDITIONS FOR USE

- Use only product which has been stored in a dry place in its original packaging.
- At low ambient temperatures the product should be mixed with water of temperature +15°C - 20°C.
- Ensure good curing after application by applying water or **Mapecure E** to **Elementfog Tix**, especially in hot or windy weather.

CLEANING

Fresh mortar can be washed off with water. If allowed to dry, mortar can be removed only mechanically.

CONSUMPTION

Approx. 1.8 kg mortar per litre mix.

PACKAGING

Elementfog Tix is supplied in 20 kg sacks and 1000 kg big bags.

STORAGE

Store in a dry place. Shelf life 12 months in unopened packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website **www.mapei.no**

PRODUCT FOR PROFESSIONAL USE.

MAPEI®

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Maximum size of aggregate:	1.0 mm

TECHNICAL INFORMATION FOR THE PREPARATION OF PRODUCT	
Mixing Ratio:	100 parts in weight of **Elementfog Tix** with 17 % of water
Preparation of mix:	mixing according to EN 196-1
Curing conditions:	CC according to Annex A – EN 12190

CHARACTERISTICS OF FRESH MIX (at +20°C - 50% U.R.)	
Colour of mix:	grey
Consistency:	thixotropic
Density:	2150 kg/m^3

PROPERTIES WHEN CURED (20 % water by vol.):		
Performance characteristics	**Test method**	**Product performance**
Compressive strength: – 28 days	EN 12190	> 50 MPa
Tensile strength in bending: – 28 days	EN 196-1	> 9 MPa
Exposure class:	EN 206-1	X0/XC4/XS2/XD2/XF4/XA1
Reaction to fire:	Euroclass	A1

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

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