

FIXOFIN

Fine-grained mortar for concrete repair, designed for precast concrete



WHERE TO USE

Fixofin is especially designed for repair and maintenance of concrete where the appearance is important. The product's composition means the mortar can be sanded smooth, yet still have good adhesive qualities.

Examples of use

- Repairs of concrete damages in 5 - 15 mm thickness
- Filling pores in concrete
- General patching and repair mortar for concrete and precast concrete

TECHNICAL DATA

Fixofin is a repair mortar for superficial damage on concrete. Used especially in the element industry.

Fixofin contains cement and well-graded sand up to 0.5 mm grain size, plus additives to ensure it can be easily applied.

Fixofin complies with the principles of EN 1504-9 "Products and systems for reparation of concrete structures: Definitions, requirements, quality control and evaluation of compliance. General rules for the use of products and systems", and the requirements of EN 1504-3 "Repair mortar for structural and nonstructural repairs, class R3".

RECOMMENDATIONS

- Do not use **Fixofin** for filling large cavities in concrete, use **Mapegrout T40** or **Redirep 45 RSF**.
- **Fixofin** does not need sand, cement or additives.
- Do not add water once the mixture has started to set.
- Repairs must generally be made in dry weather, with air and surface temperatures minimum +5°C, and avoiding direct sunlight.

GUIDELINES FOR USE

Preparation

Remove loose concrete and contaminants from the surface. The surface must be free of dust, grease, oil and other contaminants before application. Wet absorbent surfaces, but ensure no standing water is present when applying the mortar.

Mixing

Can be mixed using a powerful drill and whisk for minor repairs. Small amounts can be mixed by hand. A cement mixer is required for large amounts.

Use 3.5 - 4.0 litres water per 25 kg sack of **Fixofin**. Pour approx. 3.5 litres water into a container. Add 1 sack (25 kg) and mix to a smooth consistency. If necessary, adjust the consistency with the rest of the water and mix further for 1 minute. Let the mix stand for 4 - 5 minutes, remix and the mortar is ready to use. Do not mix more than can be used within 2 hours. Do not mix extra water with mortar which has started to set. Dispose of the mix instead.

APPLICATION

Fixofin can be placed and finished using standard masonry tools. The mortar can be finished using a float trowel or other suitable tool for the desired surface. Apply thicknesses over 15 mm in several layers, approx. 3 hours after the first application.

Finish

Repairs should initially be kept moist with water after application. Alternatively, curing membrane **Mapecure 1** or **Mapecure WG** can be applied. Curing agents (if applied) must be removed before finishing with e.g. **Elastocolor Paint**.

CLEANING

Clean tools with water while the mortar is fresh. Remove hardened material mechanically.

CONSUMPTION

Approx. 19 kg/m² per cm thickness.

PACKAGING

Fixofin is supplied in 25 kg sacks.

STORAGE

Fixofin can be stored up to 12 month from production date in unopened, original packaging in dry conditions. Opened bags should be used immediately.

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.

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION

Strength class according to EN 1504-3:

R3

Type:

PCC

Appearance:

powder

Colour:

grey

Maximum aggregate size:

0.5 mm

Dry solids content:

100 %

Chloride ions content - minimum requirements ≤ 0.05 % - according to EN 1015-17:

≤ 0.05 %

PRODUCT APPLICATION DATA (at +20°C - 50 % RH)

Colour of mixture:	grey
Mixing ratio:	100 parts of Fixofin with 14 - 16 parts water (3.5 - 4.0 l per 25 kg sack)
Consistency of mixture:	thixotropic
Density of mixture:	2 200 kg/m ³
pH:	> 12
Application temperature range:	from +5°C to +35°C
Pot life:	2 hours

FINAL PERFORMANCE (16 % blending water)

Performance characteristics	Test method	Minimum requirements according to EN 1504-3 for R3 class mortar	Product performance
Compressive strength:	EN 12190	≥ 25 MPa (after 28 days)	> 10 MPa (after 1 day) > 20 MPa (after 7 days) > 25 MPa (after 28 days)
Flexural strength:	EN 196-1	none	> 3 MPa (after 1 day) > 5 MPa (after 7 days) > 8 MPa (after 28 days)
Carbonation resistance:	EN 13295	$D_k \leq \text{control concrete (MC(0,45))}$	passes
Modulus of elasticity in compression:	EN 13412	≥ 15 GPa	18.7 GPa (after 28 days)
Bond strength to concrete (MC 0.40 type substrate water/cement ratio = 0.40) according to EN 1766:	EN 1542	≥ 1.5 MPa	1.5 MPa
Capillary absorption:	EN 13057	$\leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$	$< 0.25 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Thermal compatibility to freeze-thaw cycles with deicing salts, according to EN 1542:	EN 13687-1	≥ 1.5 MPa (after 50 cycles)	> 1.5 MPa
Exposure class (14 % mixing water):	EN 206-1	not required	X0/XC2/XF2
Reaction to fire:	Euroclass	MPA Dresden GMBH, Freiburg (D) certificates n° 2012-B-5482/01	A2-s1,d0

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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