



REOPLAST FIX

FLUID EXPANSIVE GROUT FOR ANCHORING AND STRUCTURAL REINSTATEMENT



DESCRIPTION

REOPLAST FIX is a fluid, expansive, controlled-shrinkage cementitious grout formulated for the anchoring and reinstatement of metallic elements in concrete structures. It is a premixed mortar based on special high-strength hydraulic binders, selected siliceous aggregates and specific additives that improve fluidity, expansion, workability, shrinkage control, mechanical strength and adhesion to the substrate.

FIELDS OF APPLICATION

- Anchoring of tie rods
- Anchoring of brackets
- Anchoring of foundation bolts
- Anchoring of reinforcement bars
- Assembling of precast elements
- Anchoring of crane rails and sliding tracks
- Filling and reinstatement of rigid joints between concrete elements

PRODUCT DATAS

Base	-
Catalysis ratio	Single-component
Mixing ratio	1 bag (25 kg) + 4.25 L water (17-18%)
Composition	Cementitious grout
Appearance	Powder
Specific gravity	1450 kg/m ³ (powder) – 2000 kg/m ³ (fresh mortar)
Solid content	100%
Dilution	-
Pot life	45 minutes

CONSUMPTION

2.0 kg per litre of cavity (4.25 L of mix per 25 kg bag).

COLOUR

- Grey.

PACKAGING

- 25 kg bags.

Date 15/10/2025

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TECHNICAL DATA

Parameter	Result	Standard
Maximum aggregate size	≤ 2.0 mm	-
Minimum application temperature	+5°C	-
Maximum application temperature	+35°C	-
Compressive strength	> 54 N/mm ²	EN 12190 – Class R4
Chloride ion content	≤ 0.001%	EN 1015-17
Adhesion	≥ 2.0 MPa	EN 1542
Carbonation resistance	Low	EN 13295
Elastic modulus in compression	> 27 GPa	EN 13412
Slip resistance	Class I	EN 13036-4
Thermal expansion coefficient	18.9 × 10 ⁻⁶ K ⁻¹	EN 1770
Capillary absorption	0.14 kg/m ² ·h ^{0.5}	EN 13057
Rebar pull-out resistance	0.005 mm	EN 1881
Reaction to fire	Euroclass A1	EN 13501-1

APPLICATION

SUBSTRATE PREPARATION

- **CONCRETE:** Substrates must be sound, clean, consistent and free from loose parts, dust, microbial growth, saline efflorescence, oils, grease, wax or residues of previous treatments. Remove degraded concrete by mechanical scarifying or hydro-demolition. Roughen the bonding surface, remove dust and saturate the substrate with clean water. Wait until excess water has evaporated before placing the grout.
- **REINFORCING STEEL:** Remove rust to class SA 2½ (ISO 8501-1) by manual/mechanical cleaning or careful sandblasting. Apply a corrosion-protection mortar in two coats to fully encapsulate the reinforcement.

PRODUCT APPLICATION

Mix one 25 kg bag of REOPLAST FIX with 4.0–4.5 L of clean water using a low-speed mixer until a lump-free, homogeneous grout is obtained. Allow the mixture to rest for 2–3 minutes and remix briefly. Pot life is approx. 45 minutes; do not add water or remix to recover workability after this period.



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Pour the fluid grout into the cavity from one side only to avoid air entrapment. Vibration is not required, but steel rods or wooden strips may be used to assist flow in complex cavities. Recommended thickness: 10–60 mm. For thicker pours, add up to 30% quartz aggregate (0.4–0.8 mm) after field testing.

Protect the area from rapid drying for at least 24 hours after placement.

CLEANING EQUIPMENT

Clean all tools with water immediately after use. Hardened material can only be removed mechanically.

STORAGE

Store in original sealed bags in a dry area at +5°C to +25°C for up to 12 months. Refer to SDS for further instructions.

WARNINGS

- Do not apply on smooth or improperly prepared substrates.
- Do not add cement, sand, lime or other components.
- Do not apply on gypsum, metal, plastic, wood or non-rigid surfaces.
- Protect the fresh work from direct sunlight and driving rain.

HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

For PROFESSIONAL USE ONLY.

LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.

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