



REP.0135

REPAR TIX SFR

Structural thixotropic, shrinkage-compensated, reinforced fibre mortar

Dosage

19 kg /m²/cm

Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

Application

- Finishing trowel
- Shotcrete machine
- Plastering machine
- Spatula
- Brick trowel

Family
Repair

Product Lines
• Infratech

Components
Single-component

Type
Structural thixotropic cement mortars

Functional Categories

- Repair and restoration of concrete structures with thixotropic mortars
- Construction and maintenance interventions on airport runways and quays
- Structural maintenance of dams, reservoirs, ducts and water ducts
- Structural maintenance of bridges and viaducts
- Structural maintenance of tunnels

Appearance
Powder

Certifications and legislations



EN 1504-3

Products and systems for the protection and repair of concrete structures - Structural and non-structural repair (R4)

General description

Thixotropic, rheoplastic, structural, shrinkage-compensated cement mortar, fibre reinforced with a mix of inorganic fibres in amorphous metal alloy (flexible and stainless) and alkali-resistant synthetic fibres, for the thickness restoration of works and infrastructural structures in severe marine, mountain and industrial atmospheres.

General features

REPAR TIX SFR consists of special cements, silica fume, anti-shrinkage agents, specific additives and selected aggregates, high-performance in terms of adhesion, adherence, mechanical resistance, intrinsic watertightness, dimensional stability and overall hardness. REPAR TIX SFR is added with a mix of amorphous metal fibres of 30 mm (≥0.9% by weight) and multifilament synthetic fibres of 6 mm (≥0.08% by weight).

Fields of application

Restorations, repairs of considerable thickness and size, structural recovery, reconstruction of concrete layer protecting the steel rods reinforcement, construction of reliable and durable coatings of road infrastructures (bridges, viaducts, tunnels, etc.) civil, hydraulic, industrial building works.

Available colours

- Gray

Basic features



Dosage:
1.9 kg/dm³



Max. recommended thickness:
50 mm



Maximum diameter of aggregate:
1.5 mm



Min. recommended thickness:
8 mm



Mix with water:
20-22 %



Nonflammable



Pot-life:
60 min



Shelf-life:
12 months



Solvent-free



Temperature of use:
+5 / +35 °C



Use wearing protective gloves

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Technical specifications

Adhesion to substrate (EN 1541): > 3 MPa

Bonding force (UNI EN 1015.12): 2.8 N/mm²

Capillary absorption (UNI EN 13057): $0.48 \text{ kg} \cdot \text{h}^{0.5} / \text{m}^2$

Chloride content (UNI EN 1015-17): $< 0.01 \%$

Coefficient of permeability (ASTM D 5887): 10^{-12} m/s

Compressive strength (UNI EN 12190): $> 55 \text{ N/mm}^2$

Determination of thermal compatibility (UNI EN 13687-1): 2.4 mPa

Flexural strength (UNI EN 196/1): 8 N/mm^2

Reaction to fire (EN 13501-1): A1 _

Resistance to carbonatation (UNI EN 13295): 0.5 mm

Skid resistance (UNI EN 13036-4): 56.0 mm

Static elastic modulus (EN 13142): 24000 N/mm^2

Tools cleansing

- Water

Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Mixed walls (bricks and stones)

Substrate preparation

Application surfaces should be clean, free of soiling, crumbling and non-adhering parts, dust, etc., conveniently saturated with water until they reach the condition "saturated with dry surface".

Instructions for use

Pour about 2/3 of the mixing water into the mixer, add REPAR TIX SFR and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 20-22% of the weight of the bag. After mixing is completed wait a few minutes before applying.

Place on site by rendering or using plastering /or shotcrete machines, use product quantities appropriate for the specific requirements of the construction site .

Storage and preservation

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



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Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

Adopt the necessary care and moist hardening procedures of exposed surfaces that must be protected from rain, from direct sunlight, ventilation, etc.

REPAR TIX SFR is produced/distributed by



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