



REP.0136

## REPAR TIX HG

Structural, thixotropic, fibre reinforced mono or bicomponent cement mortar

### Dosage

18 kg /m<sup>2</sup>/cm

### Packaging

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

### Application

- Brick trowel
- Finishing trowel
- Plastering machine
- Spatula

Family  
**Repair**

Product Lines

- Building
- Infratech

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**

Components

**Single-component**

Appearance

**Powder**

## Certifications and legislations



**EN 998-1**

Specification for Mortar for Masonry - General purpose rendering/plastering mortar (GP)



**EN 1504-3**

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

## General description

Thixotropic, structural, fibre reinforced cement mortar with high intrinsic watertightness, and extraordinary physical and mechanical characteristics: adhesion, compression resistance, flexural strength, abrasion resistance, etc. Perfect for remediation of structural works and articles in degraded concrete and very high performance coatings. Apply with brick trowel and plastering trowel, plastering machine. Also perfect for applications with the shotcrete technique. The product can also be supplied in a two-component, modified polymer version, with the addition of 4.5 kg of component B liquid, provided in canisters, containing special polymers in aqueous emulsion and hygrometric shrinkage reducers.

## General features

Rheoplastic, thixotropic, structural, composite cement mortar, based on special cements and selected siliceous aggregates, reinforced with a balanced mixture of READYMESH polypropylene fibres and calcium metasilicate microfibres, added with specific agents and a high content of silica fume. After hardening, it provides very high performance in terms of intrinsic watertightness, resistance to washing and hydrolysing, mechanical strength, abrasion and cavitation, anti-carbonation, chemical-physical stability, resistance to harsh atmospheric agents and to leaching water. It is fibreglass reinforced three-dimensionally, it provides high adherence and adhesion; and dimensionally stable (shrinkage-compensated). The product, in the monocomponent version, is mixed with water (approx. 16% of the weight of the bag). The two-component version (with the addition of 4.5 kg of component B product) increases adhesion to the support and reduces free shrinkage to air, especially in the initial hardening phases and in particularly hot climates, without modifying the physical-mechanical characteristics of the end product.

## Fields of application

Repairs and protective coatings of hydraulic works (pipelines, dams, tunnels etc.), marine structures and artefacts in critical situations: aggressive chemical-physical agents, leaching water, marine atmosphere, etc. Specific for shotcrete interventions in galleries, tunnels, rock walls, irrigation and hydraulic channels, piles and micropiles, diaphragms, etc.

## Available colours

- Gray














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## Basic features

 Highlighted product	 Max. recommended thickness: 40 mm
 Maximum diameter of aggregate: 1.5 mm	 Min. recommended thickness: 7 mm
 Mix with water: 16 %	 Nonflammable
 Pot-life: 30 min	 Shelf-life: 12 months
 Solvent-free	 Temperature of use: +5 / +35 °C
 Use wearing protective gloves	

## Technical specifications

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<i>Bonding force (UNI EN 1015-12):</i> $\geq 2$ N/mm <sup>2</sup>
<i>Capillary absorption (UNI EN 13057):</i> 0.43 kg•h <sup>0.5</sup> /m <sup>2</sup>
<i>Chloride content (UNI EN 1015-17):</i> <0.01 %
<i>Compressive strength after 28 days (UNI EN 12190):</i> $\geq 70$ N/mm <sup>2</sup>
<i>Compressive strength after 90 days (UNI EN 12190):</i> $\geq 85$ N/mm <sup>2</sup>
<i>Density (UNI EN 1015-6):</i> 2115 kg/m <sup>3</sup>
<i>Determination of thermal compatibility (UNI EN 13687-1):</i> $\geq 2$ N/mm <sup>2</sup>
<i>Flexural strength after 28 days (UNI EN 196/1):</i> > 8 N/mm <sup>2</sup>
<i>pH:</i> >12 _
<i>Reaction to fire (EN 13501-1):</i> A1 _
<i>Resistance to carbonatation (UNI EN 13295):</i> 0.5 mm
<i>Skid resistance (UNI EN 13036-4):</i> 61.0 mm
<i>Static elastic modulus (EN 13142):</i> 22300 N/mm <sup>2</sup>
<i>Water/binder ratio:</i> <0.37 _

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## Tools cleansing

- Water

## Applicable on

- Concrete
- Prefabricated concrete
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Rock walls

## Instructions for use

Pour about 2/3 of the mixing water into the mixer, add REPAR TIX HG and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 16% of the weight of the bag. After mixing is completed wait a few minutes before applying.

The addition of BOND HG to the mixing water (about 0.5 litres per 25 kg bag of product), in the single-component version, allows further improvements in terms of adherence, adhesion, watertightness, workability, moldability and deformability.

In the bi-component version, pour component B (liquid) into a container (bucket or other), gradually add and mix in component A (powder), continue to mix until the mixture is totally lump-free.

For high coating thicknesses, static, monolithic requirements, etc., performed with REPAR TIX HG, appropriate metal reinforcements (mesh, cages, etc.) should be used, anchored to the support with SYNTECH PROFIX, GROUT MICROJ, REPAR TIX G2.



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## 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".

## 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.



## 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.

Do not apply in case of direct exposure to sunlight or strong ventilation. Cure the protection and the prolonged moist hardening of surfaces laid.

*REPAR TIX HG is produced/distributed by*



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