



REP.0134

## REPAR TIX BIC

Thixotropic, rheoplastic, structural, two-component fibre reinforced mortar

### Dosage

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

### Packaging

- Bag 24 kg [A]
- Plastic can 5 kg [B]
- Kit: 1 Bag 24 kg [A] + 1 Plastic can 5 kg [B]

### Application

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

Family  
**Repair**

Product Lines

- Building
- Infratech

Components

**Two-components**

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**

Appearance

**Powder + Liquid**

## 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

## General description

Structural, two-component, composite, reinforced fibre cement mortar, based on high-resistance cements, superpozzolanic fillers, hydrodispersed polymer resins, anti-shrinkage agents, plasticisers, stabilisers, and anticorrosive agents, antiallergic additives, selected aggregates, READYMESH polypropylene fibres.

## General features

REPAR TIX BIC, represents the best balance between the different requirements of mechanical strength and deformability indicated by several updated technological guidelines. The remarkable characteristics of adhesion, dimensional stability and deforming capacity, are combined with anti-cracking attitudes induced by three-dimensional diffuse micro-reinforcement provided by a balanced mix of polypropylene and glass fibres, and further characteristics related to durability resulting from the superpozzolanic reactivity of the peculiar reactive fillers contained in component B, ensuring the best protection against atmospheric agents, chlorides and sulphates etc.

## Fields of application

Restorations and repairs, structural recovery, reinforcement reconstruction, construction of reliable and durable coatings for building, civil, hydraulic, industrial, concrete and masonry works, also in marine environments or mountainous.

## Available colours


- Gray

## Basic features


←→ Max. recommended thickness:  
3-4 cm

 Maximum diameter of aggregate:  
1.5 mm

→← Min. recommended thickness:  
5 mm

 Pot-life:  
60 min

 Shelf-life:  
12 months

 Temperature of use:  
+5 / +35 °C

## Technical specifications

Adhesion to substrate (UNI EN 1015-12): 2.3 N/mm<sup>2</sup>

Average carbonation depth (UNI EN 13295): 3.7 mm

Capillary absorption (UNI EN 1015-18): 0.54 kg•h<sup>0.5</sup>/m<sup>2</sup>

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

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Coefficient of permeability (UNI EN 1015-19): 22.1  $\mu$

Compressive strength (EN 12190): > 40 N/mm<sup>2</sup>

Darcy impermeability: 1 x 10 E-10 cm/s

Flexural strength (EN 12190): > 6 N/mm<sup>2</sup>

pH: > 12 \_

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

Static elastic modulus (EN 13142): 16000 N/mm<sup>2</sup>

## Tools cleansing

- Water

## Applicable on

- Concrete
- Prefabricated concrete
- Fiber-cement
- Mixed walls (bricks and stones)
- Stone walls

## Substrate preparation

Application surfaces should be clean, free of dirt, crumbling and non-adhering parts, dust etc., and saturated with water "saturated with dry surface"..

## Instructions for use

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.

Provide reconstruction thicknesses in the range 5 to 30-40 mm; for greater thicknesses add 3-6 mm gravel (add up to 30% by weight of the initial compound). High coating thicknesses, static monolithic requirements, etc., it may be necessary to resort to appropriate reinforcements (electrowelded mesh etc.) anchored to the support with SYNTECH PROFIX or GROUT MICROJ or REPAR TIX G2.

## 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.

Thermal range of application and conservation: +5 / +35 °C, does not apply in case of direct exposure to sunlight. Cure the protection and the moist hardening of exposed surfaces.



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