

# Repar Tix HG

## Structural, thixotropic, fibre reinforced cement mortar



Thixotropic, structural, fibre reinforced cement mortar with high intrinsic watertightness, and extraordinary physical and mechanical characteristics: adhesion to concrete, adhesion to steel, compression resistance, flexural strength, abrasion resistance. Perfect for remediation of structural works and articles in degraded concrete and very high performance coatings. Thanks to the very high adhesion to steel and concrete supports, it is also suitable for fixing threaded bars in holes made on concrete or rock conglomerates. Apply with brick trowel and plastering trowel.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

## OBTAINED CERTIFICATIONS AND REGULATIONS



## FEATURES AND BENEFITS

Rheoplastic, thixotropic, structural, composite cement mortar, based on special cements and selected siliceous aggregates, reinforced with a balanced mixture of READY MESH 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 is mixed with water (approx. 16% of the weight of the bag).

## 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. For wet spritz beton operations it is advisable to use the Repar Tix HG SB mortar, which maintains the physical and mechanical characteristics of Repar Tix HG, but is specially formulated for the maximum performance of sprayer machines.

## ALLOWED SUPPORTS

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

## PREPARATION OF SUPPORTS

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". An adequate roughening of the surfaces by scarifying, sandblasting etc. is always necessary in order to obtain the maximum adhesion values to the substrate. The optimal values are obtained with high pressure hydro-scarification. Bare the irons undergoing disruptive oxidation or deeply oxidized, removing the rust of the exposed irons (by sandblasting or abrasive brushes).

## MODE OF USE

Pour about 2/3 of the mixing water into the mixer, add Repair 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. The addition of Bond HG to the mixing water (about 0.5 litres per 25 kg bag of product) allows further improvements in terms of adherence, adhesion, watertightness, workability, moldability and deformability. For high coating thicknesses, static, monolithic requirements, etc., performed with Repair Tix HG, appropriate metal reinforcements (mesh, cages, etc.) should be used, anchored to the support with Syntech Profix, GROUT MICROJ, Repair Tix G2, or with the same Repair Tix HG.

## APPLICATION METHODS

Brick trowel - Finishing trowel - Spatula - Sprayer

## TOOL CLEANING

Water

## KEY FEATURES

- |                                                                           |                                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Highlighted product                   | <input checked="" type="checkbox"/> Max. recommended thickness: 40 mm |
| <input checked="" type="checkbox"/> Maximum diameter of aggregate: 1.5 mm | <input checked="" type="checkbox"/> Min. recommended thickness: 7 mm  |
| <input checked="" type="checkbox"/> Mix with water: 16 %                  | <input checked="" type="checkbox"/> Pot-life: 30 min                  |
| <input checked="" type="checkbox"/> Shelf-life: 12 months                 | <input checked="" type="checkbox"/> Temperature of use: +5 / +28 °C   |
| <input checked="" type="checkbox"/> Use wearing protective gloves         |                                                                       |



## TECHNICAL SPECIFICATIONS

UNI EN 12190

Compressive strength after 1 day > **25 N/mm<sup>2</sup>**

UNI EN 12190

Compressive strength after 28 days  $\geq$  **65 N/mm<sup>2</sup>**

UNI EN 196/1

Flexural strength at 1 day **5 N/mm<sup>2</sup>**

UNI EN 13295

Resistance to carbonatation **0.5 mm**

EN 13501-1

Reaction to fire **A1**

UNI EN 1542

Bonding force  $\geq$  **2 N/mm<sup>2</sup>**

UNI EN 13057

Capillary absorption **0.30 kg·h<sup>0.5</sup>/m<sup>2</sup>**

UNI PdR 88:2020

Total recycled content  $\geq$  **5.3 %**

UNI EN 13687-1

Determination of thermal compatibility  $\geq$  **2 N/mm<sup>2</sup>**

UNI 8147

Contrasted expansion with air curing for 1 day > **0.01 %**

UNI EN 12190

Compressive strength after 7 days > **50 N/mm<sup>2</sup>**

UNI EN 12190

Compressive strength after 90 days  $\geq$  **70 N/mm<sup>2</sup>**

UNI EN 196/1

Flexural strength after 28 days > **8.0 N/mm<sup>2</sup>**

UNI EN 13036-4

Skid resistance **61.0 mm**

Water/binder ratio < **0.37**

UNI EN 1015-6

Density **2220 kg/m<sup>3</sup>**

pH > **12**

UNI EN 1015-17

Chloride content < **0.01 %**

EN 13142

Static elastic modulus **26000 N/mm<sup>2</sup>**

< **70 µg/m<sup>3</sup>**

## CONSUMPTION

Approximately 18,5 kg/m<sup>2</sup> of Repar Tix HG for every centimetre of thickness to be implemented (approximately 1850 kg per cubic metre).

## STORAGE AND CONSERVATION

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.

## PHOTO GALLERY



Produced and distributed by **AZICHEM srl**  
Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy  
Tel: +39 0376.604185 / 604365  
Fax: +39 0376 604398  
[www.azichem.com](http://www.azichem.com) - [info@azichem.com](mailto:info@azichem.com)

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## ADDITIONAL CONTENT



## WARNINGS AND PRECAUTIONS

Do not apply in case of direct exposure to sunlight or strong ventilation. Cure the protection and the prolonged moist hardening of surfaces laid. The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

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