



REP.0341

REPAR TIX HG BIC

Two-component, high-performance, structural, thixotropic, fibre mortar

Customs Code

3824 5090

Packaging

- Bag 25 kg [A]
- Plastic can 5 kg [B]
- Kit: 1 Bag 25 kg [A] + 1 Plastic can 5 kg [B]

Family
Repair

Product Lines

- Building
- Infratech

Components
Two-components

Type

Two-component 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 1504-3

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

General description

Two-component thixotropic, structural, fibre reinforced cement mortar, with compensated shrinkage, with high intrinsic water tightness, and extraordinary physical and mechanical characteristics: adhesion, compression resistance, flexural strength, abrasion resistance, etc. Modified polymer mortar, with the addition of component B liquid, provided in canisters, containing special polymers in aqueous emulsion and hygrometric shrinkage reducers. Perfect for remediation of structural works and articles in degraded concrete and very high-performance coatings.

General features

This two-component version of REPAR TIX HG 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.

Dosage

Approximately 19,50 kg/m² of REPAR TIX HG BIC for every centimetre of thickness to be implemented (approximately 1950 kg per cubic metre).

Fields of application

Repairs and protective coatings of hydraulic structures (pipelines, dams, tunnels, etc.), marine structures and artefacts in critical situations: harsh chemical-physical agents, leaching water, marine atmosphere, etc.


Basic features

↔ Max. recommended thickness:
40 mm


 Maximum diameter of aggregate:
1.5 mm

↔ Min. recommended thickness:
7 mm

 Shelf-life:
12 months

 Temperature of use:
+5 / +35 °C

 Use wearing protective gloves

 Available colours
Gray

Technical specifications

Bonding force (UNI EN 1542): $\geq 2 \text{ N/mm}^2$

Capillary absorption (UNI EN 13057): $0.40 \text{ kg} \cdot \text{h}^{-0.5} / \text{m}^2$

IF YOU WANT TO SOLVE IT


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Chloride content (UNI EN 1015-17): < 0.01 %
Compressive strength after 01 day (UNI EN 12190): 18 N/mm²
Compressive strength after 07 days (UNI EN 12190): 37 N/mm²
Compressive strength after 28 days (UNI EN 12190): >45 N/mm²
Density: 1950 g/l
Flexural strength after 07 days (UNI/EN 196/1): 7 N/mm²
Flexural strength after 28 days (UNI/EN 196/1): 8.2 N/mm²
Flexural strength at 01 day (UNI/EN 196/1): 3.4 N/mm²
Resistance to carbonatation (UNI EN 13295): 0.5 mm
Static elastic modulus (EN 13142): 18000 N/mm²

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". 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).

Instructions for use

Pour component B (liquid) into a container (bucket or other) gradually adding and mixing component A (powder), continue mixing until total elimination of lumps. The optimal consistency of the product and the consequent physical-mechanical performances declared in this technical data sheet can be reached using 4.5 kg of COMPONENT B for each 25 kg bag. The excess quantity of COMPONENT B (0.5 kg) is particularly useful for priming the substrate, or for wetting the trowel in the final smoothing operation, or in hot and arid environmental conditions where the mixed product is kept at rest in the bucket it may require some light addition of liquid to regain its optimal consistency, thus avoiding uncontrolled water additions.



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Warnings, Precautions and Ecology

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.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.

REPAR TIX HG BIC is produced/distributed by



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