



Family
Repair

Type
Rapid hardening structural thixotropic cement mortars

Product Lines
• Infratech

Functional Categories
• Roads and municipal maintenance interventions
• Structural maintenance of dams, reservoirs, ducts and water ducts
• Structural maintenance of bridges and viaducts

Components
Single-component

Appearance
Powder

REP.0137

REPAR TIX SPEEDY HP

Fast hardening, thixotropic
cement mortar

Customs Code

3824 5090

Packaging

- Bag 25 kg

Application

- Brick trowel
- Spatula

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

Structural, rheoplastic, thixotropic cement mix with controlled shrinkage, with adequate super-pozzolanic filler additives, hold accelerators and glass micro-fibres. The mix is equipped with very fast hold, excellent workability and excellent adhesion on cement supports to re-build. The product was mainly designed for small/medium repairs and reconstructions in environments where the fastness of application is important, such as works on roads, ports and airports.


Dosage

Approximately 19 kg/m² of REPAR TIX SPEEDY HP for every centimetre of thickness to be implemented (approximately 1900 kg per cubic metre).

Fields of application


Suitable for surface regulation and reconstruction works on missing sections and cavities, especially in works involving structural renovation of worn concrete. Volumetric reconstruction of concrete cover on structures in reinforced concrete or prefabricated ashlar.


Basic features

 Density:
2.105 kg/dm³


 Max. recommended thickness:
5 cm

 Maximum diameter of aggregate:
0.7 mm

 Mix with water:
16 - 18 %

 Pot-life:
10 - 15 min

 Shelf-life:
12 months

 Available colours
Gray

Technical specifications

Adhesion to substrate (UNI EN 1015-12): 2 N/mm²

Chloride content: < 0.01 %

Compressive strength after 01 day (EN 12190): > 15 N/mm²

Compressive strength after 03 days (EN 12190): > 35 N/mm²

Compressive strength after 07 days (EN 12190): 40 N/mm²

Compressive strength after 08 hours (EN 12190): > 7 N/mm²

Compressive strength after 28 days (EN 12190): > 45 N/mm²

Flexural strength after 28 days (EN 12190): > 8.5 N/mm²

Flexural strength at 01 day (EN 12190): > 3.5 N/mm²

Setting time (EN 196-3): 40-60 min

IF YOU WANT TO SOLVE IT
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Tools cleansing

- Water

Applicable on

- Concrete
- Prefabricated concrete
- Asphalt

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". 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 about 2/3 of the mixing water into the mixer, add REPAR TIX SPEEDY HP and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 16 - 18% of the weight of the bag.

Having finished mixing, immediately use the product for the works necessary, paying attention to its fast hardening. You are advised to use a little product at a time, only the quantity usable within 10 minutes after mixing (attention, the ambient temperature can also considerably affect the hold time of the product!).

Storage and preservation

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight.



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.

Do not apply in case of direct exposure to sunlight and/or excessive ventilation. Cure the protection and the prolonged moist hardening of exposed surfaces. Given the short setting time, it is recommended to prepare small amounts of product at a time, to avoid waste and scraps.

REPAR TIX SPEEDY HP is produced/distributed by



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