

Repar Steel

Passivating two-component cement, anticorrosive, for reinforcing rods



Two-component cement slurry, modified with flexibilising resins and specific anticorrosive agents for the passivating treatment of oxidised reinforcement rods, in the restoration of degraded concrete.

CUSTOMS CODE: 3824 5090

COMPONENTS: Two-components

APPEARANCE: Powder + Liquid

AVAILABLE COLORS: Light blu

PACKAGING AND DIMENSIONS: Pail 3.4 kg [A] - Bottle 1.6 kg [B] - Kit: 1 Pail 3.4 kg [A] + 1 Bottle 1.6 kg [B]

OBTAINED CERTIFICATIONS AND REGULATIONS



FEATURES AND BENEFITS

The anticorrosive efficacy of Repar Steel is determined by the high alkalinity and by the superpozzolanic reaction of the components of the anhydrous system, as well as by the presence, in the liquid component (B), of migratory and interfacial corrosion inhibitors, capable of carrying out cathodic and anodic protection, based on organic compounds capable of making ferrous ions unavailable for feeding electrochemical corrosion processes. The polymeric components of the solution also determine further increases in the anticorrosive efficacy, especially against aggressive attacks deriving from chlorides and sulphates, and increase the adhesion between the treated bar and the concrete (adherence test according to EN 15184 in compliance with the UNI EN technical standard 1504 "Products and systems for the protection and repair of concrete structures - Part 7: Corrosion protection of reinforcements").

FIELDS OF APPLICATION

Passivating protective anti-corrosive treatment for reinforcing rods in restoration works in reinforced concrete.

ALLOWED SUPPORTS

Rusty reinforcement rods

PREPARATION OF SUPPORTS

Carefully remove loose rust from the metal surfaces of exposed reinforcing bars by sandblasting or deep brushing until the white metal surface is obtained. This operation is essential to effectively develop the anticorrosive property of Repair Steel. Obviously, to block the advance of the carbonation profile in the concrete, it is essential to complete the restoration with the appropriate restoration mortars: thixotropic (Repar line) or pourable (Grout line).

MODE OF USE

Mix components A and B and continue mixing until a homogeneous, lump-free mixture is obtained. Apply with a brush to the surfaces of the previously prepared reinforcing bars. To prevent the application of the repair mortar from removing the still fresh Repair Steel treatment, wait for the product to harden before proceeding with the volumetric restoration. The minimum recommended waiting time is approximately 6-8 hours with summer temperatures and approximately 12-16 hours with winter temperatures. Do not apply the product with temperatures below 5°C or if it is expected that the temperature may fall below this value during the first 12 hours of curing.

APPLICATION METHODS

Brush

TOOL CLEANING

Water

KEY FEATURES



Maximum diameter of aggregate: 0.25 mm



Nonflammable



Pot-life: 45 min



Shelf-life: 12 months



Temperature of use: +5 / +35 °C

TECHNICAL SPECIFICATIONS

UNI EN 1015-11

Compressive strength after 1 day **20 MPa**

UNI EN 1015-11

Flexural strength at 1 day **5 MPa**

EN 15183

Corrosion resistance **< 0.5 mm**

Reaction to fire **B-s2 d0**

EN 1542

Adhesion to substrate **≥ 2.0 MPa**

UNI EN 1015-11

Compressive strength after 28 days **50 MPa**

UNI EN 1015-11

Flexural strength after 28 days **10 MPa**

EN 15184

Resistance to the extraction of the steel bars with improved adhesion **> 90 %**

UNI EN 1015-6

Density **2.0 kg/dm³**

UNI EN 13057

Capillary absorption **0.2 kg·h^{0.5}/m²**

CONSUMPTION

From 0.03 to 0.1 kg of Repair Steel for each linear metre of steel bar to be treated.



STORAGE AND CONSERVATION

Protect from freezing. 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.

PHOTO GALLERY



ADDITIONAL CONTENT



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Update of **14-10-2024**
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Total pages of this document: 4

WARNINGS AND PRECAUTIONS

The overflow of the product on the concrete adjacent to the treated rids does not entail any problem.

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.

