



REP.0126

REPAR MONOSTEEL

Passivating monocomponent
cement, anticorrosive, for
reinforcing rods

Customs Code

3824 5090

Packaging

- Pail 5 kg
- Bag 25 kg
- Pail 2.5 kg

Application

- Brush

Family
Repair

Product Lines

- Building
- Infratech

Components
Single-component

Type

Passivating cement/polymers for oxidised reinforcing rods

Functional Categories

- Repair and restoration of concrete structures with thixotropic mortars
- Block repair of concrete works with free-flowing mortars
- Construction and maintenance interventions on airport runways and quays
- Structural maintenance of bridges and viaducts

Appearance

Powder

Certifications and legislations



EN 1504-7

Products and systems for the protection and repair of concrete structures. Reinforcement corrosion protection



EN 998-1

Specification for Mortar for Masonry - General purpose rendering/plastering mortar (GP)

General description

Cement slurry in monocomponent powder, passivating, light blue in colour, to be added with water, modified with superpozzolanic agents, flexibilising resins and corrosion inhibitors, for the passivating treatment of oxidised reinforcing rods, in the restoration of degraded concrete.

General features

The anti-corrosive effectiveness of REPAR MONOSTEEL results from the high alkalinity and from the superpozzolanic reactivity of components. The specific corrosion inhibitor contained in the compound (DCI - Corrosion Inhibitor Agrément Certificate BBA** n.96/3232), conforming to the standard UNI 9747, is based on a reaction which is capable of making unavailable the ferrous ions for the supply of the electrochemical processes of corrosion. The polymeric components of REPAR MONOSTEEL also determine further increases in the effectiveness against corrosion, especially vis-à-vis the aggressive attacks arising from chlorides and sulphates. (BBA = British Board of Agrément).

Dosage

From 0.02 to 0.07 kg of REPAR MONOSTEEL for each linear metre of steel bar to be treated. 2,0 kg of REPAR MONOSTEEL for each square metre of surface to be treated.

Fields of application

Passivating protection treatments of the reinforcement rods in interventions of restoration of works and articles in reinforced concrete, in marine, mountain and industrial environments. Application as a protective coating of iron and steel walls for protection against corrosion and oxidation.

Basic features



Highlighted product



Mix with water:
32-40 %



Nonflammable



Shelf-life:
12 months



Temperature of use:
+5 / +35 °C



Use wearing protective gloves



Available colours
Black / Light blue

IF YOU WANT TO SOLVE IT


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Technical specifications

(*) *substrato di riferimento - calcestruzzo secondo EN 1766*

Compressive strength after 01 day (UNI EN 1015/11): 10 MPa

Compressive strength after 28 days (UNI EN 1015/11): 35 MPa

*Concrete adhesion (direct traction) (UNI EN 1542): * 2.4 N/mm²*

Corrosion resistance (EN 15183): < 0.5 mm

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

Density (UNI EN 1015-6): 1700 kg/m³

Fire resistance: A1 _

Flexural strength after 28 days (UNI EN 1015/11): 8 MPa

Flexural strength at 01 day (UNI EN 1015/11): 3 MPa

pH: > 12 _

Resistance to the extraction of the steel bars with improved

adhesion (EN 15184): > 90 %

Water/binder ratio: < 0.45 _

Tools cleansing

- Water

Applicable on

- Concrete
- Rusty reinforcement rods

Substrate preparation

Carefully remove non-adhering rust, present on the metal surfaces of the exposed reinforcement rods by blasting or deep brushing, until the following condition is reached: "almost white metal" (metal colour as if it has just come out of extrusion). For applications as a protective coating, scratch the substrate mechanically or with sandblasting in order to eliminate as much rust as possible and immediately apply REPAR MoNOSTEEL on the treated surface.

Instructions for use

Pour about half a litre of water into a bucket, add REPAR MONOSTEEL and additional water necessary for achieving a fluid, dense, brushable consistency. Continue mixing until a homogeneous lump-free mixture is obtained. Apply by brush on the surfaces of the previously prepared reinforcement rods or panels.

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

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.

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

REPAR MONOSTEEL is produced/distributed by



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