



REP.0132

## REPAR STEEL

Passivating two-component cement, anticorrosive, for reinforcing rods

### Customs Code

3824 5090

### Packaging

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

### Application

- Brush



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Family  
Repair

Product Lines

- Building
- Infratech

Components  
Two-components

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 + Liquid

## 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

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.

## General features

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").

## Dosage

From 0.03 to 0.1 kg of REPAR STEEL for each linear metre of steel bar to be treated.

## Fields of application

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

## Basic features



Maximum diameter of aggregate:  
0.25 mm



Nonflammable



Pot-life:  
45 min



Shelf-life:  
12 months



Temperature of use:  
+5 / +35 °C



Available colours  
Light blu

## Technical specifications

Capillary absorption (UNI EN 13057): 0.2 kg•h<sup>0.5</sup>/m<sup>2</sup>

*Coefficient of permeability (UNI EN 1015-19): 16.8  $\mu$*   
*Compressive strength after 28 days (UNI EN 1015-11): 35 MPa*  
*Density (UNI EN 1015-6): 1765 kg/m<sup>3</sup>*  
*Flexural strength after 28 days (UNI EN 1015-11): 8 MPa*

## Tools cleansing

- Water

## Applicable on

- 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).

## Instructions for use

The mixing of the two components may be implemented by an external mixer or by using a site bucket. Pour the blue solution (component B) into the bucket, while adding the powder gradually and during mixing (component A), mixing until the mixture is completely lump-free; apply by brush on the prepared reinforcing surfaces, for a consumption of about 100 g per metre of oxidized reinforcement to be passivated.

## Storage and preservation

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.



## 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](http://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](http://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 STEEL is produced/distributed by*



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