



REP.0132

## REPAR STEEL

Passivating two-component cement, anticorrosive, for reinforcing rods

### Dosage

0.1 kg /m

### 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

Family  
Repair

Product Lines  
• Building  
• Infratech

Components  
Two-components

Type  
Cementitious or polymeric passivating agents for reinforcing bars

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 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 anti-corrosion effectiveness of REPAR STEEL results from the high alkalinity and from the superpozzolanic reactivity of the components of the anhydrous system, as well as from the presence, in the liquid component (B), of the specific anticorrosive DCI (Corrosion Inhibitor Agrément Certificate BBA\*\* n.96/3232), in compliance with the standard UNI 9747, based on a reaction which is capable of making the ferrous ions unavailable for the supply of the electrochemical processes of corrosion. The polymer components of the solution also determine additional increments of effectiveness against corrosion, especially vis-à-vis the aggressive attacks arising from chlorides and sulphates. (BBA = British Board of Agrément).

## Fields of application

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

## Available colours

- Light blu

## Basic 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

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 μ

Compressive strength (UNI EN 1015-11): 14.9 N/mm<sup>2</sup>

Density (UNI EN 1015-6): 1765 kg/m<sup>3</sup>

Flexural strength (UNI EN 1015-11): 4.2 N/mm<sup>2</sup>

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## Tools cleansing

- Water

## Applicable on

- Rusty reinforcement rods

### 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.

### 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).

### 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

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

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

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