

# RUST FREE POWDER



Cementitious rust inhibitor for rebar protection



## PROPERTIES

Brushable cementitious rust inhibitor for concrete reinforcing steel (rebars). Its powerful corrosion resistant ingredients protect concrete steel reinforcement from rust, caused from the penetration of moisture or water (\*). RUST FREE POWDER waterproofs the reinforcing steel and eliminates any chance of future corrosion. It also works as a bonding agent between new and existing concrete due to its exceptional bonding ability. Classified as steel reinforcement corrosion protection product per EN 1504-7.

(\* ) When the steel reinforcement (rebar) is corroded, remove all the rust with RUST REMOVER of DUROSTICK or a wire brush, before applying the product.

## APPLICATIONS

RUST FREE POWDER is absolutely necessary for the protection of all exposed concrete rebars due to earthquake, carbonation or faulty pouring. It is also recommended as preventive measure for ultra-thin concrete walls, protecting the steel reinforcement in a permanent moisture environment. It is suitable as bonding bridge between existing and new concrete.

## USE

1. Surface preparation

**Reinforcing steel (rebars):** Clean the reinforcing steel from rust, dust and oils to Sa2 ½ scale, near white blast clean, per DIN 55928-4.

**Concrete:** Surfaces must be free from loose materials, dirt, oils and they must be thoroughly soaked.

2. Application

Add the RUST FREE POWDER in water, in a ratio of 4:1 by volume, stirring until a homogeneous clean mass is created, so thick that it stands on the brush or paintbrush without dripping.

**As a corrosion resistant coat:** Apply the product with an emulsion or regular brush in two, 1mm thick coats each one. Allow for 2-3 hours to pass between coats.

**As bonding agent:** Apply a 2mm coat and bond the existing with the new concrete or mortar, while the product is still fresh (uncured).

## CLEANING

Clean all tools with water, immediately after use.

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## CONSUMPTION

- As corrosion protection for reinforcing steel: 70-120gr/m of reinforcing steel.
- As bonding agent coating: 2kg/m<sup>2</sup>

## STORAGE

Store in places protected from moisture and frost for at least 18 months from production date.

## SAFETY DIRECTIONS

The product contains Portland cement. Before use, read the safety directions on the product packaging or the Material Safety Data Sheet.

## PACKAGING

- Carton box with 12 pcs of 1kg each one
- 5kg Container

## TECHNICAL SPECIFICATIONS

(Measurement conditions 20°C and 50% R.H.)

Form - Color	Cementitious powder - Brick red
Toxic	No
Bulk density of dry mortar	1.45±0.05 kg/lt
Bulk density of fresh mortar	1.95±0.05 kg/lt
Water requirement	220ml water to 1kg mortar 1.1lt water to 5kg mortar
Application temperature	From +5°C to +35°C
Pot life	One hour
Shrinkage	Negligible
Resistance to corrosive environment (salt spray test per EN ISO 9227)	Excellent, >200 hours without corrosion

## PRODUCT PERFORMANCE

Strength after 28 days per EN 196-1 to:

• flexion	6.00±0.80 N/mm <sup>2</sup>
• compression	30.00±5.00 N/mm <sup>2</sup>

Shear bonding strength (coated steel to concrete), per EN 15184

Acceptable\*1

Corrosion protection per EN 15183

Acceptable\*2

A product is considered acceptable when:

\*1. The shear adhesion strength of the coated reinforcing steel with the product is at least equal to 80% of the referenced shear strength of reinforcement without the coating product.

\* 2. After the test, the coated (with the product) areas of the steel were not corroded.



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