

RUST FREE POWDER



Cementitious corrosion 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.

APPLICATIONS

RUST FREE POWDER is absolutely necessary for the protection of all exposed concrete rebars (pic.4) 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, dust, oils and they must be thoroughly soaked.

2. Application

Add RUST FREE POWDER in a clean container with cool water, at a mixing ratio of 4 parts RUST FREE POWDER to 1 part water (by volume). Stir until a lump free, homogeneous mass is created, thick enough to stay on an emulsion or regular brush, 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 thick coat and bond the existing with the new concrete or mortar, while the product is still fresh (uncured).

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

CLEANING

Clean all tools with water, immediately after use.

CONSUMPTION

As corrosion protection for reinforcing steel: 70-120gr/m of reinforcing steel. As bonding agent coating: 2kg/m².

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 mortar - Brick red |
| Toxic | No |
| Bulk density of dry mortar | 1.45±0.05kg/lt |
| Bulk density of fresh mortar | 1.95±0.05kg/lt |
| Water requirement | 220ml of water in 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 PERFORMANCES | |
| Strength after 28 days per EN 196-1 to: | |
| • flexion | 6.00±0.80 N/mm ² |
| • compression | 30.00±5.00 N/mm ² |
| Shear bonding strength (coated steel to concrete), per EN 15184 | Acceptable*1 |
| Corrosion protection, per EN 15183 | Acceptable*2 |

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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