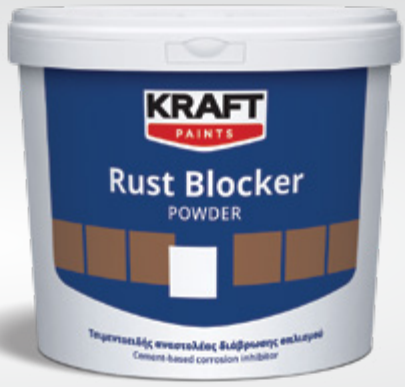
Rust Blocker Powder



Cementitious slurry mortar for reinforcement anti-corrosion protection - Bonding bridge

- **Excellent anti-corrosion protection**
- **Improves the adhesion of the new concrete**
- **Easy and quick protection**
- **Mixing only with water**
- **High protection against corrosive agents**
- **Enhances the mechanical strength of reinforcement steel**

DESCRIPTION

Rust Blocker Powder is a cementitious slurry mortar for reinforcement anti-corrosion protection which can act as a bonding bridge between the old and new concrete. It contains natural hydraulic recycled binders (Recycled Green Technology) specialized polymers, active micro-additives, and a corrosion inhibitor which, when mixed and applied to the surface of the steel reinforcement, form a protective coating that prevents the penetration of any corrosive agent (moisture, chlorides, etc.), while simultaneously enhancing the mechanical properties of the reinforcement — suitable for both above-ground and below-ground applications.
Its final surface also acts as a bonding bridge, as it creates the ideal substrate for the new concrete/repairing mortar to adhere and integrate seamlessly.

Rust Blocker Powder is part of the **Kraft Paints** Repair System, in accordance with EN 1504, and includes the following products:

Rust Blocker Powder: as anticorrosion protection.

Fine Repair 83 & Strong Repair 84: as repairing mortars for concrete category R3 &R4 respectively.

It is classified as reinforcement corrosion protection according to **EN 1504-7 & EN 1504-9:2008 (Principle 7: Preserving and restoring passivity** - Methods 7.1 & 7.2).

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FIELD OF APPLICATION

Rust Blocker Powder is applied as a:

• Corrosion inhibitor, for the protection of steel reinforcement during repairing on reinforced concrete which has been damaged due to mechanical (vibrations, impacts) chemical or physical (adverse weather/environmental conditions) stresses.

• Corrosion inhibitor preventively, for protecting steel reinforcement especially in cases of thin concrete or in environment with high humidity.

• Bonding bridge, for seamless adhesion between old and new concrete/ repairing mortar.

TECHNICAL DATA

(Conditions +20°C and 50% Relative Humidity)

Color	Brick red
Water ratio*	0,23 l water in 1kg Rust Blocker Powder
Maximum grain size	1000μm
Bulk density of dry mortar	1,50 ± 0,05kg/l
Bulk density of fresh mortar	2,05 ± 0,05kg/l
Temperature	From +5°C to +35°C
Application thickness	1 mm per layer
Pot life	1 hour
Consumption for 2 layers (2mm)	• As an anticorrosive inhibitor 100gr per 1m steel with diameter of 8mm [applied in two layers ~2mm thickness] • As a bonding bridge 2,0-2,2 kg/m^2 [applied in two layers ~2mm thickness] 1kg Rust Blocker Powder covers 10m steel bar with 8mm diameter (in two layers)

PRODUCT PERFORMANCE

Compression strength, EN 12190	≥ 45MPa
Adhesion to concrete, EN 1542	≥ 2,50MPa
Shear adhesion (coated steel to concrete), EN 15184	Successful testing: shear bond strength exceeds 80% of the reference substrate strength (uncoated surface)
Corrosion protection of coated steel, EN 15183	Successful testing: no corrosion observed on coated areas

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DIRECTIONS FOR USE

SURFACE PREPERATION

Reinforcement steel

The reinforcement must be completely free of rust, mortar, concrete residues, dust or any other material that may reduce the adhesion or promote further corrosion.
Sandblasting or hydroblasting is recommended and when that is not possible, use alternatively a metallic brush for thoroughly cleaning.

Deteriorated Concrete

The concrete surface must be free from dust, loosely adhered particles, oils, grease, or other contaminants. Areas of deteriorated concrete (delaminated, cracked, etc.) must be removed using mechanical means.

The surface should then be pre-wetted to saturation, ensuring that no standing water remains

MIXING:

In a clean container add 0.23-0.25 liters of pure water. Gradually add the contents of a 1kg **Rust Blocker Powder** while stirring with a low-speed electric mixer or by hand in small quantities. Mixing must be done carefully to ensure that no amount of product remains on the walls or bottom of the container. The mixture is ready for use when it becomes homogeneous and lump-free.

APPLICATION INSTRUCTIONS

As a Corrosion Inhibitor:

Apply the first coat (approx. 1 mm thick) to the clean reinforcement steel using a brush or medium-hard bristle paintbrush.

After the first coat has dried (approx. 2–4 hours), apply a second coat of the same thickness, ensuring full and uniform coverage of the steel surface without gaps.

Wait at least 6 hours after the second coat before applying any repair mortar or new concrete.

As a Bonding Bridge:

Apply a 2 mm thick coat of the material to the pre-wetted surface of the old concrete using a brush or paintbrush.

While the product is still fresh, apply the new concrete or repair mortar.

CLEANING OF TOOLS

Clean tools immediately after use with plenty of water while the material is still fresh. Once hardened, remove residues mechanically.

IMPORTANT NOTES

Do not apply at temperatures below +5°C.

Do not add additional improvement additives, cement, gypsum and other aggregates to the mixture.

Do not add more water than the recommended dosage.

It is strongly recommended to apply Rust Blocker Powder immediately after sandblasting so that the reinforcement bars are not left exposed and unprotected.

Avoid application under intense sunlight and/or strong wind conditions.

09/25 THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

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PACKAGING – SHADES

Available in red-brick shade in 1kg plastic container.

CONSUMPTION

As a corrosion inhibitor: approx. 80-120 g per 1m of reinforcement with 8 mm diameter (in two coats).

As a bonding bridge: approx. 2.0–2.2 kg/m^2 for two layers.

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

Carefully read and follow all cautions and warnings on product label. For further information please consult the Material Safety Data sheet.

Poison Centre Telephone:

210 7793 777

STORAGE

Store in a dry environment, protected from moisture, in its original sealed packaging, preferably on shelves.

The product remains stable for 12 months from the production date under proper storage conditions.

CERTIFIED SYSTEMS
ISO 9001 ISO 140001 ISO 50001 ISO 45001

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