

MC-Rust EX

Cleaning agent for rust contamination in reinforce bars.

PRODUCT PROPERTIES:

- Ready to use.
- Short interaction time.
- Reacts with rust forming a soluble salt.
- Can be neutralized with water.
- Chloride free.
- Non-corrosive and does not reduce the cross-sectional area of steel reinforcement.
- Does not affect the bonding strength between steel reinforcement and concrete.
- Capable of removing rust on steel up to grade C (as classified in TCXDVN 334:2005).

AREAS OF APPLICATION:

- Removal of rust/stains:
 - On metallic substrates or molds that have not been used for a long time, steel formwork.
- De-rusting immersion bath:
 - For iron and steel tools.
 - For small hardware units.

APPLICATION ADVICE:

- **Application note:** Areas adjacent to rust-contaminated concrete areas should be covered before application. Before using **MC-Rust EX** please read the warnings and safety notices on the packaging. Necessary construction tools: Paint brush, plastic bucket, chemical sprayer, spray gun, gloves, mask, glasses and protective clothing.
 - Do not dilute with water as it will affect the quality of the product.
 - Iron and steel after rust removal when the surface is not completely dry, if exposed to water, will form a white layer on the surface of the iron and steel. This phenomenon will affect the aesthetics but does not affect the quality of the steel and the adhesion of the steel to the concrete.
- **Surface preparation:** Iron and steel surfaces before being treated with rust converters must be cleaned of dust and dirt, completely dry and free of grease and water.
- **Application:**
 - Dip or soak in the solution for 15-30 minutes depending on the level of rust on the iron and steel.
 - Apply with a brush or spray directly onto the treated surface.
 - If the rust on the iron and steel is at level A and B, we can use the usual method of brushing rust remover or spraying with a small tank without high pressure.
 - If the iron and steel is heavily rusted from level C or higher, after spraying the rust remover, it is best to use a high-pressure water jet to clean the surface.
 - The reaction time of **MC-Rust EX** should not be less than 5 minutes and not more than 20 minutes.
 - The cleaning process with **MC-Rust EX** can be repeated if the rust remains, depending on the level, it can be applied multiple times within 20-30 minutes.
 - Apply in dry conditions, avoiding contact between iron and steel and water when the product is not completely dry (the product is completely dry within 24 hours).



BE SURE. BUILD SURE.

- If the rust removal level is classified as level D, it cannot be constructed. Rust removal must be carried out by mechanical methods such as dry sandblasting or manual chiseling.
- **Further information:**
 - **MC-Rust EX** can also be used as an immersion bath for derusting metal tools and small hardware units.
 - After the neutralization with water, the dry metal parts should be preserved with a suitable protective agent, preferably MC Dur ZKE or Nafufill KMH.

TECHNICAL DATA:

Characteristics	Unit	Value	Comments
Consumption	liter/m ²	1 liter/6 – 12 m ²	Depending on the level of rust according to classification TCXDVN 334:2005
Density	g/cc	~1.15	At 30°C
Exposure time	min	5	Maximum per single step
Substrate temperature	°C	+6 +50	Minimum temperature Maximum temperature

PRODUCT CHARACTERISTICS:

Form	Clear liquid
Processing temperature	As a watery solution, MC-Rust EX freezes at temperatures below -5°C. Before use the entire quantity must therefore be thawed and thoroughly mixed to avoid concentration variations.
Cleaning of equipment	Clean with water immediately after use.
Shelf life	12 months from date of manufacture if stored in unopened packaging. Protect from rain, direct sunlight, heat and frost.
Delivery	5 kg, 20kg canister.
Disposal	Empty packs completely and dispose off carefully to protect our Environment.

Safety instructions:

- Wear protective gear.
- Avoid direct contact with skin.
- If product gets into eyes, rinse immediately with clean water and seek medical attention.

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : NBM10

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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