



Certified Quality System since FEBRUARY 1993

From Project to Jobsite

MuCis® PROTEZIONE FERRO mono

ONE-COMPONENT ANTI-CORROSION SLURRY

CE approved – Certificate 1305-CPD-0808 EN 1504-7 - ZA.1

Description MuCis® PROTEZIONE FERRO MONO is a powder which, once mixed with water in the proper proportions, forms a brushable slurry for the protection of the steel reinforcement. The product is characterised by the high passivating ability, and efficient anti-corrosion properties.

> The product has excellent adhesion to the substrate, optimal durability and good mechanical resistances. It forms an effective barrier against the penetration of water and salts, but is still permeable to water vapour.

> The powder MuCis® PROTEZIONE FERRO MONO is based on hydraulic binders, osmotic and complexing admixtures, passivation additives and MuCis® (Multiple and migrating corrosion inhibitors in vapour phase).

Advantages and • characteristics •

- Fast and easy to apply by brush
- Optimal adhesion to the substrate, and optimal durability
- The inhibitor protects the steel reinforcement in contact, but also the molecules will migrate through the concrete structure, and shall ionise also the steel in the adjacent area, not directly treated of repaired.

Fields of use •

- As protection of the reinforcement steel after removing of the rust, and immediately prior to the application of structural repair mortars, especially when there is only minimal concrete cover, or when subjected to the particular aggression of de-icing salts, etc.
- Due to the high adhesion to steel and to each type of substrate, the product can be also used with the fixation of rebar stumps anchored into the concrete, mortar, stones.....

- Method of use Apply the slurry immediately after mixing, and within 30 minutes.
 - For the protection of the sandblasted and dry steel reinforcement, apply by brush a layer of 1-2 mm, immediately before application of our structural repair mortars.
 - In the case there is a longer period between the first protective layer, and the structural repair, apply on the cured first layer, a second layer, followed by the repair with a one-component mortar. In the case the repair mortar is two-components, the repair can be done at each moment, even after long period, without additional preparation, even after some days.
 - Mix the powder with water in the correct proportions (about 0,3 lt per kg powder) till the desired consistency is obtained (in this way that the brush leaves a coating of 1-2 mm per layer). Mix always till the slurry is lump-free and homogeneous.
 - The film-formation of the polymer in emulsion effectuates with temperatures above +5°+6°C; applications in colder climate should be postponed, or only performed with maximum attention.
 - The product is compatible with all rheoplastic anti-shrinkage mortars, and especially recommended in combination with our two-components products.
 - Keep the product in the original packaging, and always well closed.
 - Read careful the safety indications on the packaging, or, eventually, consult the specific product safety datasheet.

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Remark Information according to 2003/53/CE.

Storage: storing possible during 12 months in original, unopened packaging, kept dry and protected, at temperatures between +5 °C and +35 °C. Do not use the content of already

opened bags if there are any lumps.

Packaging Pail of 15 Kg.

Pail of 3 Kg.

Characteristic technical data

cal data (typical values)

Compressive strength	N/mm ²	25 (28 d.)
Flexural strength	N/mm ²	6,5 (28 d.)
Modulus of elasticity	N/mm ²	8.000 (28 d.)
Adhesion to concrete	N/mm ²	2 (28 d.)
Pull-out rebars	N/mm ²	> 10 (28 d.)

Carbonatation in time	8 years mm	0,5
	18 years mm	4
	25 years mm	8
Resist. to penetration of CO ₂	μ	4.600
Watervapourpermeability coeff.	μ	68
① Res. Frost/thaw	gr/m²	350
② Permeab. To chlorides	Coulomb	300

Type mortar		slurry
N. components		1
Advised layer thickness	mm	2
Application		hand
Curing : wet		NO
Curing : protected		SE
Typical application		VHDRS/MuCis

Setting time		normal
hardening		normal
Compensation shrinkage		YES
Consumption	Kg/m²/mm	2

1 N/mm² = 1 MPa = 10,19 Kg/cm²



Safety Read carefully the safety indications on the packaging, or consult the relevant Material **indications** Safety Datasheet of this product.

The above date are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product of for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below.

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