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per grandi progetti.

SCHEDA TECNICA



KF 380

PASSIVATING GROUT FOR
REINFORCING RODS



PRODUCT

Single-component passivating grout for rustproof treatment of reinforcing rods.

CARATTERISTICHE

It is easy to prepare, it has excellent adhesion to iron and concrete, high protection to corrosion of water and chlorides.

APPLICATION FIELD

Rust protection of reinforcing rods.
Mortar latching on old or degraded concrete structures before of the restoration with the structural repair mortar MX 300 Tixotropic (in class R3) or MX 300 Tixotropic Plus (in class R4).

SUBSTRATES

Reinforcement rods, reinforced concrete and concrete.

CONSUMPTION

70 - 200 g/ml according to reinforcing rod diameter:
(Ø 10 mm ≈ 120 g);
(Ø 15 mm ≈ 150 g).

PACKAGING

- 20 kg bags on pallet of 1200 kg;
- 5 Kg bags in boxes of 25 kg on pallet of 1000 kg.

STORAGE

It can be stored 12 months in a dry place in its original packaging.

ITEM SPECIFICATIONS

The anticorrosion treatment of reinforcing rods in concrete structures before their restoration with thixotropic mortar, must be made with an high specific protection passivating mortar, such as KF 380 by Edilcol Italia, to be mixed with water and which has, after 28 days, an adhesion to concrete ≥ 2 N/sqmm. The product must set the minimum requirements of EN 1504-7.



Cert. n. 27395-2008-AQ-ITA



Cert. n. 1982-CPR-059/471



Polizza n. 70023

PREPARATION of the substrate and of the mortar

- Remove the deteriorated and in phase of detachment parts from the concrete until reach the intact, compact and rough layer.
- Clean the concrete and reinforcing rods by sandblasting, removing dust, rust, oil, grease, efflorescence, paint etc.
- Wet the substrate with water until rejection and remove the excess of water or wait for evaporation.
- Mix a bag (5 Kg) of KF 380 with approximately 1,7 liters of water or a bag (20 kg) with approximately 7,0 liters of water, either manually or with a mixer at a low number of turns, until obtaining a homogeneous grout without lumps.

APPLICATION of the product

- Apply a first coat of KF 380 by brush on an exposed metal reinforcement structure so wait for its complete drying (2 - 3 hours) before to apply a second coat on the concrete to be restored.
- Proceed with the implementation of the structural repair mortar MX 300 Tixotropic (in class R3) or MX 300 Tixotropic Plus (in class R4) after about 6 hours (24 hours if the restoration mortar is quick-setting and hardening).

RECOMMENDATIONS

Do not add other products to the mixing of KF 380 and do not re-mix or add other water to the product during its setting time.

Do not wait more than 5-6 hours between the sandblasting and the application of KF 380.

If using a quick-setting restoration mortar, such as MX 300 Tixotropic Rapid or MX 300 Tixotropico Plus Rapid, wait at least 24 hours after the application of KF 380..

Do not apply outside on too sunny or windy days, on frozen surfaces, during the thaw or with risk of frost for the 24 hours following the application and at temperatures lower than +5 °C or higher than +35 °C.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

DATI TECNICI

Rev. 03 - 02/2016

Appearance:	red powder	
Composition:	cements, quartziferous aggregates, inorganic pigments, resins, additives	
Particle size:	< 0,5 mm	
Application temperature:	+ 5°C / + 35°C	
Mixing water:	≈ 34 %	
Curing time:	≈ 5 min	
Pot life:	≈ 30 min	
Thickness of each coat:	1 - 2 mm	
Minimum feasible thickness:	≥ 2 mm	
Maximum feasible thickness:	≤ 4 mm	
Waiting time between 1st and 2nd layer:	≈ 2 - 3 hours	
	≈ 6 hours	- MX 300 Tixotropic - MX 300 Tixotropic Plus
Waiting time for the application of restoration mortar:	≈ 24 hours	- MX 300 Tixotropic Rapid - MX 300 Tixotropic Plus Rapid
Adhesion on concrete (28 days):	≥ 2 N/sqmm	(EN 1542)
Slip-resistance of the steel-load carriers related to shift of 0.1 mm	value exceeded	(EN 15184)
Corrosion resistance: - 10 condensation cycles in water; - 10 cycles in sulfur dioxide; - - 5 days in salt spray	value exceeded	(EN 15183)
Reaction to fire:	Class A1	(EN 13501)
Contribution of smoking:	none	
Hazard classification:	none	(EC 99/45)