





-  CONCRETE REPAIR
-  RIPRISTINO DEL CALCESTRUZZO
-  RESTAURATION DU BÉTON
-  NAPRAWA BETONU



CEM-OX

Passivating grout for reinforcing bars

Description

CEM-OX is a one component product based on cementitious binders, polymer powders. CEM-OX is specially formulated both as a reinforcing steel corrosion protection and for the construction of adhesion bridges between old concrete parts to be renovated and repair mortars.

Where to Use

CEM-OX is used exclusively to treat reinforcement irons that may have been exposed during concrete restoration or following removal of unsteady parts, as well as badly carbonated concrete in need of repair.

Advantages

The product:

- is monocomponent;
- exhibits excellent adhesion to concrete.

Application

To ensure that CEM-OX has the possibility of effectively developing its anticorrosive properties, it is essential that the iron, before treatment, is completely freed from rust. Then proceed as described below.

Preparing the Substrate

- thoroughly clean and remove all loose particles;
- brush or sandblast the reinforcing steel scheduled for treatment until all traces of rust are removed;
- wash with water the laying surface.

How to Use

- Mix 5 kg of CEM-OX with 1 ÷ 1.5 liters of clean water and mix slowly with a low rpm U shaped anchor paddle for solids, until a lump-free paste is obtained. CEM-OX should be applied within one hour of preparation.
- Brush on a first coat of CEM-OX on reinforcing irons taking care to fully coat them with an approx. 1 mm thick product layer.
- After 1 or more hours, apply a second coat as above mentioned. We recommend to completely and homogeneously cover the surface of the iron. The total thickness of the two coats must be at least 2 mm.
- Then coat the part to be compensated with GROVE RIPRISTINO within 2-3 hours.

Coverage

To obtain a dry film having a thickness of about 1 mm, it is necessary to apply approximately 1.75 kg of product per m².

How to Clean the Tools

Tools and brushes can be cleaned with water if the product is fresh, while if the product has hardened it must be removed mechanically.





Consumption

About 0.12 to 0.2 kg/linear meter (estimate for a 10 mm rod)

Warnings and technical information

- Apply at a temperature between +5°C and +35°C.
- Do not dilute CEM OX with water when the product begins to set.
- Apply CEM OX immediately after sand blasting (once sanded do not leave the rods without protection for a long time).
- CEM-OX is not usable as a finish, but is designed to be always covered by subsequent finishing treatments.



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Colour

The product is available in its red oxide version.

Specifications

PRODUCT IDENTITY DATA			
Consistency		---	dust
Granulometry, UNI EN 933-1		mm	<0.4
Solid residue		%	100
PRODUCT APPLICATION DATA (at +20°C and 50% RH)			
Colour of the mixture		---	red oxide
Mixing Water		%	20-30
Mixture consistency			thixotropic paste
Mixture mass density		kg/m ³	1,800
Application Temperature		°C	from +5 to +35
Mixture life		hours	about 1 hour
Waiting time between 2 subsequent coats		hours	1.2
Minimum applicable thickness (2 coats)		mm	2
FINAL PERFORMANCE			
Adhesion to Concrete		MPa	2

Note: The test method refers to regulations as indicated on the table

Packaging and Storage

Packaging	2 kg plastic buckets
Storage	12 months when stored in the original unopened packaging, in a dry place at temperatures ranging from +5° C to +35°C. The product is moisture sensitive.

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

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