



NOVAFER

One component reinforcing mortar and sealant

- ▷ **Double action product**
 - ▷ **Protection against corrosion of reinforcement**
 - ▷ **Penetrates and seals concrete capillaries**
 - ▷ **High adhesion to most common construction materials**
 - ▷ **Easy to apply**
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Description

NOVAFER is a cement-based mortar composed of selected quartz aggregates of suitable granulometry, composite polymers and special additives. It effectively protects the reinforcement of the concrete from corrosion to prevent rust and at the same time the concrete itself from moisture. It is easy to apply with a brush with excellent adhesion to the reinforcing bars and concrete surface.

Certifications

Classified with CE marking as a product for the protection and repair of concrete structures by Declaration of Performance (DoP) C04799-CPR-1720902 according to EN 1504-7 Principle 11, Method 11.2 and

as surface protection product for concrete – coating for moisture control and increased resistivity according EN 1504-2 Principle 2 (moisture control), Method 2.3 and Principle 8 (resistance increase), Method 8.3 with Declaration of Performance C04799-CPR-1930250.

Typical Applications

NOVAFER is suitable for:

- Protection of concrete reinforcement from oxidation - corrosion
- Protecting the concrete itself from moisture:
- on the roofs and walls that come in contact with the ground, such as foundations, basements, flowerpots, etc.
- on balconies, bathrooms before applying tiles and natural stones
- acts as an adhesion bridge for repair mortars

Technical Data

Product Identification

Consistency	Powder
Color	Grey - Red
Chemical base	Portland cement, quartz aggregates, special additives
Granulometry	D _{max} : 0,4 mm
Apparent weight	1,4 ± 0,1 kg/L
Storage	12 months stored in a dry place in the original sealed packaging

Application Data (+23°C % & 50% R.H.)

Mixing ratio	0,5 – 0,54 L water per 2 kg
Density of fresh mortar	1,85 ± 0,05 kg/L
Pot life	≈ 30 – 45 minutes
Application temperature	from +5°C up to +35°C
Application thickness	Total thickness 2 mm, 1 mm per layer

Final Performances according to EN 1504-7:2006

	Performance	Method
Corrosion protection	pass	EN 15183
Shear adhesion (coated steel to concrete)	pass	EN 1062-3

Final Performances according to EN 1504-2:2004

	Performance	Method
Permeability to water vapour	Class I : Sd < 5 m	EN ISO 7783 - 1 EN ISO 7783 - 2
Capillary absorption and permeability to water	≤ 0,1 Kg / m ² h ^{0,5}	EN 1062-3
Adhesion strength by pull-off test	≥ 1 N/mm ²	EN 1542
Resistance to fire	F	EN 13501-1

Application Procedure

Substrate Preparation

Reinforcing bars as well as concrete should be free of loose elements, grease, oils and rust. Large amounts of rust on the reinforcing bars are removed by sandblasting, where this is not mechanically possible with a brush. For removing surface rust, it is recommended to use RUST CONVERTER.

Preparation of the mix

Add the required amount of water to a suitable container and add the material (2Kg powder) with stirring. Mix with an electric mixer at low speed (500 rpm) for 2 - 3 minutes until the mixture is completely homogenized. The mortar should be applied under normal conditions within 30 - 45 minutes of mixing. Low temperatures extend the life of the mortar while high temperatures decrease workability.

Application of the mix

The application should be in two layers with a total thickness of at least 2mm. Apply a first coat with a flat brush on the properly prepared surface. Apply the second coat when the first has hardened enough, about 2 hours later. In any case the application should overlap the entire surface with uniform thickness.

For use as a sealant in all critical areas, such as floor joining with vertical surfaces, the sealing zone must be strengthened using a suitable fiberglass mesh.

Recommendations

- Apply only upon structurally stable and well-prepared substrate
- Apply NOVAFER immediately after cleaning the bars. Wait 24 hours if RUST CONVERTER is applied
- Do not add cement, gypsum, lime or other materials that might affect the properties of the mortar
- Do not apply in ambient temperatures less than +5°C and higher than +35°C
- Protect the application surface from rain or frost the first 24 hours
- For incorporating fiberglass mesh the thickness of the first layer must be 1mm
- Do not exceed the maximum thickness per layer
- Do not apply in total thickness less than 2 mm
- Do not wet between the layers
- It is recommended that the application be made by a professional

Consumption

The consumption of NOVAFER is 0.2 kg per current bar measure 14 mm in diameter and 1.4 kg / m² per mm of thickness. This does not include the requirement of roughness, porosity, etc. of the substrate.

Cleaning

Due to the increased adhesion of NOVAFER it is recommended to clean tools before the material starts to set. Once the material has dried, cleaning can be done only by mechanical means.

Storage

NOVAFER remains stable for 12 months from date of manufacture stored in original, closed and sealed packaging, in dry conditions and temperatures between + 5 ° C and + 35 ° C.

Packaging

Plastic containers of 2 kg

Safety Instructions

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety-related data.

Warning

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing.

For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website www.novamix.gr or directly to the QR Code of the product.



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