



STRUTTURA RASO FINO - RF 114

SINGLE-COMPONENT, FIBRE SYNTHETIC MORTAR FOR REPAIRING, SMOOTHING, FINISHING AND PROTECTING CONCRETE AND MASONRY ELEMENTS.

COD. RF114-25
25 kg bag



STRUTTURA RASO FINO - RF 114 is a mortar to be used for restoring, finishing and protecting degraded concrete in infrastructural, road, railway, civil, industrial and hydraulic structures. It has high adhesion to the substrate, good resistance to atmospheric agents and to freeze-thaw cycles, making it possible to carry out durable, reliable work.

It is specifically formulated for smoothing indoor and outdoor civil rendering of cast or prefabricated concrete and cementitious plaster, for restoring the cortical thickness of superficially deteriorated reinforced concrete structures, increasing their durability, and for smoothing over weathered, poorly absorbent cementitious plaster.

It can also be used to correct slight imperfections such as air bubbles coming to the surface during casting, cracks caused by poor concrete compaction, lack of flatness, lack of concrete cover.

Can be applied by hand and by suitable spraying machine after mixing. Thickness from 2 mm in one coat and up to 5 mm in two coats and up to 10 mm in two or more coats.



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INSTRUCTION FOR USE

Average consumption	1.5 kg/m ² for every mm of applied thickness
Mixing water	20 - 23 % (5.0 - 5.75 liters per 25 kg bag)
Granulometry	≤ 0.6 mm (EN 12192-1)
Minimum thickness per layer	2 mm
Maximum thickness	10 mm
Application temperature	+ 5 °C / + 35 °C
Rest time of the mixture	5 min
Pot life of the mixture	4 hours
Packaging	25 kg polyethylene paper bag
Storage	12 months in original, intact packaging and protected from moisture.

PERFORMANCE CHARACTERISTICS

STRUTTURA RASO FINO - RF 114 meets the performance requirements set by the European standard **EN 1504-2** for surface protection and coating products against penetration risks (**PI**) and by **EN 1504-3** for non-structural repair products for concrete using repair mortars of **class R1** and of **type PCC**.

Properties	Value	Test method
Bulk density of the hardened product	1.5 kg/L	EN 12190
Chloride ion content	≤ 0,05 %	EN 1015-17
Adhesion to concrete at 28 days	≥ 0.8 MPa	EN 1542
Permeability to CO ₂ (Sd)	> 50 m	EN 1062-6
Thermal compatibility - Freeze-thaw cycles with deicing salts - after 50 cycles (measured as adhesion according to EN 1542)	No defects found	EN 13687-1
Capillary absorption and water impermeability	≤ 0.1 kg·m ⁻² ·h ^{-0.5}	EN 1062-3
Thermal conductivity (λ) - tabulated value	0.47 W/m·K	EN 1745
Compressive strength at 1, 7, and 28 days	≥ 2.5 / 8.0 / 13.0 MPa	EN 12190
Flexural strength at 28 days	≥ 4.0 MPa	EN 196-1
Reaction to fire	Class A1	EN 1504-3

METHODS OF USE

SURFACE PREPARATION

The surface must be clean and free of any loose parts. Wash and slightly roughen the application surface by sandblasting or water jetting until all dust, salts, and residues from previous concrete work are completely removed. If the surface shows slight powdery efflorescence due to surface friability of the concrete, proceed with consolidation beforehand.

Moisten the surface before proceeding with the installation.

Saturation of the substrate is a fundamental condition to ensure the best adhesion of the mortar.

MIXING

Do not start mixing the product if the ambient temperature or the substrate temperature is below 5 °C or above 35 °C.

STRUTTURA RASO FINO - RF 114 must be mixed with approximately 5.4 liters of clean water for every 25 kg until a homogeneous mixture, free of lumps and of a certain consistency, is obtained. Allow the mixture to rest for about five minutes, briefly remix, and apply with a trowel to the surface to be finished.

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APPLICATION

STRUTTURA RASO FINO - RF 114 is applied using a steel trowel at a thickness of up to 2 mm in a single layer, up to 10 mm in two or more layers applied fresh on fresh.

If applied to the feeding machine, fill the hopper of the plastering machine with the previously mixed product and spray from a distance of 25 - 35 cm from the wall.

FINISH

After 21 days from the application of the mortar **STRUTTURA RASO FINO - RF 114** it is possible to paint and decorate.

SAFETY INSTRUCTIONS

During handling and application, wear protective clothing and gloves, goggles, and dust masks. In case of contact with skin, wash with water and soap. In case of contact with eyes, rinse with water and seek medical attention if irritation persists. For safety information and for the use and storage of the product, the user must refer to the most recent Safety Data Sheet.

WARNINGS

Do not apply at temperatures below +5 °C or above +35 °C.

Do not apply on frozen substrates or those subject to freezing within a period of less than 24 hours.

Do not apply on gypsum substrates, inconsistent or crumbling surfaces.

Do not add any type of material, aggregates and/or additives, to the product, nor remix the mixture if the product is in the process of hardening, under penalty of losing its characteristics.

Do not apply on large surfaces without providing for separation joints.

Do not allow the product to dry excessively and/or too quickly, and avoid application in strong winds and excessive sunlight.

SPECIFICATION ITEM

STRUTTURA RASO FINO - RF 114 - Cementitious mortar, for smoothing, fiber-reinforced with synthetic fibers, for the restoration, finishing, and protection of elements of reinforced concrete structures and/or concrete and plasters. Applicable by hand and by suitable spraying machine after mixing. Thickness 2 mm in a single layer and up to 10 mm in two or more layers. Product compliant with the performance requirements set by the European standard **EN 1504-2** for surface protection and coating products against penetration risks (**PI**) and by **EN 1504-3** for non-structural repair products for concrete using repair mortars of class **R1** and of type **PCC**. The product must also meet the requirements detailed in the table " **Performance Characteristics** ".

For further information on specification items, cost analysis, construction details, and maintenance plans, please contact the Technical Office of Fibre Net SpA.

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