

**FIBRE
NET**

composite engineering



EPOCA RASO NHL - RNHL 105

PREMIXED MORTAR, BASED ON NHL HYDRAULIC LIME,
FOR SMOOTHING AND FINISHING OF SUPPORTS PREVIOUSLY
RESTORED WITH PRODUCTS FROM THE EPOCA LINE.



EPOCA RASO NHL - RNHL 105 is a highly breathable mortar, designed for restoration work both inside and outside historical masonry buildings. It also possesses excellent mechanical and chemical compatibility and low reactivity to the action of salts present in all masonry materials.

Manual application or by suitable machine after mixing.

Usable:

- as a finishing smoothing of the EPOCA di Fibre Net mortars;
- RI-STRUTTURA system of Fibre Net;
- C-MATRIX system of Fibre Net;
- RETICOLA PLUS system of Fibre Net.



EPOCA RASO NHL - RNHL 105

USAGE INSTRUCTIONS

Average consumption	1.6 kg/m ² for each mm of applied thickness
Colore	Whitish
Mixing water	28% (7 liters per 25 kg bag)
Granulometry	≤ 1.3 mm
Minimum thickness per layer	1 mm
Maximum thickness per layer	2 mm
Application temperature	+ 5 °C / + 35 °C
Packaging	25 kg bag
Storage	12 months in original, unopened packaging and protected from moisture.

PERFORMANCE CHARACTERISTICS

EPOCA RASO NHL - RNHL 105 meets the performance requirements set by the European standard **EN 998 -1** Mortars for internal and external plastering for general use (GP).

Property	Value	Test method
Class and type	CS I-GP	EN 998-1
Appearance	Powder	Internal method
Application	Mechanical/Manual	-
Operating temperature	-30 °C / +90 °C	
Bulk density of hardened product	1.30 kg/m ³ ± 5 %	EN 1015-6
Water absorption by capillarity	W0	EN 1015-18
Coefficient of resistance to passage value	$\mu \leq 10$	EN 1015-19
Compressive strength - 28 days	≥ 1.25 MPa	EN 1015-11
Flexural strength - 28 days	≥ 0.5 MPa	EN 1015-11
Adhesion to the concrete support	≥ 0.2 MPa (FP: A)	EN 1015-12
Thermal conductivity λ_{10dry} (tabulated value, P = 50 %)	0.35 W/m·K	EN 1745
Euroclass of reaction to fire	A1	EN 13501 -1

APPLICATION MODALITIES

SUPPORT PREPARATION

The product is ready to use; do not add binders or aggregates that could compromise the technical requirements of the material. The support must be consistent, clean, sufficiently rough, and free of friable parts, dust, and salt efflorescence. Otherwise, proceed to remove all parts and substances that may compromise the adhesion of the product.

Do not apply on plaster or scagliola substrates, painted substrates, wooden, metal or plastic elements. Any hollows, holes, humpiness of the underlying plaster must be eliminated 24 hours before the intervention by means of an initial levelling. Wet old or particularly absorbent plaster before application, avoiding surface water stagnation.

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MIX PREPARATION

Once the product has been applied, it must be protected for 48 hours from rain, washouts, frost and sudden evaporation produced by beating sun or strong winds. Temperatures below +5°C and above +35°C in the 24 hours following application may significantly alter the hardening time and compromise the plaster's final mechanical performance. In hot and windy climates 24 hours after laying the material, ensure moist curing by spraying water twice a day for 2 - 3 days. In order not to jeopardise vapour permeability, do not use poorly transpiring coatings or paints; where ceramic or stone coverings are to be bonded, assess the mechanical compatibility of the skimming with these coverings before laying;

PRODUCT USE

Do not apply at ambient and substrate temperatures below +5°C or above +35°C. Do not add cement, lime or aggregates. Wet substrates in hot weather. Protect mortars from frost, high temperatures, excessive sunlight and wind during the curing period. Store in a dry place.

SAFETY INSTRUCTIONS

Wear protective clothing and gloves, goggles and dust masks during handling and application. In case of contact with skin, wash with soap and water. In case of contact with the eyes, wash with water and if irritation persists, seek medical attention. For safety information and for product use and storage, the user should refer to the latest Material Safety Data Sheet.

WARNINGS

Do not apply at ambient and substrate temperatures below +5°C or above +35°C. Do not add cement, lime or aggregates. Wet substrates in hot weather. Protect mortars from frost, high temperatures, excessive sunlight and wind during the curing period. Store in a dry place.

SPECIFICATION ITEM

EPOCA RASO NHL - RNHL 105 premixed, environmentally friendly smoothing mortar, based on NHL 3.5 natural hydraulic lime and binders with high resistance to sulphates, with excellent mechanical and chemical compatibility with the materials present in historic buildings, low reactivity to the action of sulphates and salts in masonry, suitable for obtaining perfectly smooth finishes. It complies with the UNI EN 998-1 standard. For further information on specifications, cost analysis, construction details and maintenance plans, please contact the Technical Office of Fibre Net SpA.

The purchaser is responsible for verifying the suitability of the products described in this document for their intended use and purpose. Fibre Net SpA accepts no liability for improper use of the material. The customer is responsible for verifying that this sheet and the data contained herein are valid for the product batch of interest and are not superseded by later editions and/or new product formulations or certifications. The customer is invited to contact our Technical Department in advance. This edition cancels and replaces all previous editions.