



MATERIA RASO LEGO - RL 103

MORTAR BASED ON HYDRATED LIME AND HYDRAULIC BINDERS FOR SMOOTHING AND FINISHING OF PLASTERS.

COD. RL103-25
25 kg bag



MATERIA RASO LEGO - RL 103 is a single-component, highly breathable, fine-grained pre-mixed mortar for interior and exterior restoration work on historic masonry buildings.

It has excellent mechanical and chemical compatibility and low reactivity to the action of salts present in all masonry materials. Manual application after mixing.

Can be used in combination with:

- as a finishing skim coat for mortars of the Materia RINFORZA line by Fibre Net;
- RI-STRUTTURA system by Fibre Net;
- C-MATRIX system by Fibre Net;
- H-PLANET system by Fibre Net.

MATERIA RASO LEGO - RL 103

INSTRUCTIONS FOR USE

Average consumption	1.50 kg/m ² per mm of thickness
Color	gray
Mixing water	21% (5.25 L per 25 kg bag)
Granulometry	0 - 0.8 mm
Application	manuale
Rest time of the mixture	5 min
Life time of the mixture	60 min
Minimum thickness	2 mm
Maximum thickness per layer	3 mm
Final maximum thickness	6 mm
Application temperature	+ 5 °C / + 35 °C
Packaging	25 kg bag on pallets of 700 kg and 1,400 kg
Storage	12 months in original, intact packaging and protected from moisture.

PERFORMANCE CHARACTERISTICS

MATERIA RASO LEGO - RL 103 meets the performance requirements set by the European standard **EN 998 - 1** Mortars for internal and external plastering for general use (GP).

Properties	Value	Test method
Class and type	CS IV - GP	EN 998-1
Apparent density	1.35 ± 0.1 kg/L	
Apparent density of the mixture	1.85 ± 0.1 kg/L	EN 1015-6
Water absorption by capillarity	≤ 0.5 kg/m ² ·h ^{0.5}	EN 1015-18
Water vapor permeability	μ ≤ 35	EN 1015-19
Compressive strength - 28 days	≥ 6.5 MPa	EN 1015-11
Flexural strength - 28 days	≥ 2.5 MPa	EN 1015-11
Thermal conductivity λ 10dry (P = 50 %)	0.67 W/m·K	EN 1745
Euroclass of reaction to fire	A1	EN 13501 -1

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METHOD OF USE

SURFACE PREPARATION

The surface 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 gypsum substrates, plaster, painted surfaces, or elements made of wood, metal, or plastic. Any depressions, holes, or irregularities in the underlying plaster must be eliminated 24 hours prior to the intervention through a first smoothing layer for leveling. Wet old or particularly absorbent plasters before installation, avoiding surface water stagnation.

MIXING

The product is ready to use; do not add binders or aggregates that would compromise the technical characteristics of the material. Preparation can be carried out in a mixer, with a drill, or a horizontal mixer manually, with the addition of 21% clean water (5.25 liters per 25 kg bag).

APPLICATION

The product installed must be protected for 48 hours from rain, washing, frost, and rapid evaporation caused by direct sunlight or strong ventilation; temperatures below +5°C and above +35°C in the 24 hours following installation can significantly alter curing times and compromise the final mechanical performance of the plaster. In the presence of warm and ventilated climates, ensure a moist curing by spraying with water twice a day for 2 - 3 days, 24 hours after laying the material.

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 ambient and substrate temperatures below +5°C or above +30°C. Do not add cement, lime, or aggregates. Wet the substrates during hot periods. Protect the mortars from frost, high temperatures, excessive sunlight, and wind during the curing period. Store in a dry place.

SPECIFICATION ITEM

MATERIA RASO LEGO - RL 103 - Premixed mortar based on hydrated lime and hydraulic binders for smoothing and finishing plasters. It is a single-component mortar, highly breathable and fine-grained, for restoration work both indoors and outdoors. Compliant with the performance requirements set by the European standard **EN 998 -1** Mortars for internal and external plastering for general use (**GP**). The product must also meet the requirements detailed in the table " **Performance Characteristics** ".

For further information on specifications, cost analyses, construction details, and maintenance plans, please contact our Technical Office.

The buyer is responsible for verifying the suitability of the products described in this document for the intended use and purposes. Fibre Net SpA assumes no responsibility for improper use of the material. The customer is required to verify that this data sheet and the information contained therein are valid for the batch of product of interest and have not been superseded by subsequent editions and/or new product formulations or certifications. The client is invited to contact our Technical Office in advance. This edition cancels and replaces any previous one.