



# CALCEPURA

La tradizione della calce.

## RESTAURA

natural hydraulic lime material NHL 3.5

CALCEPURA RESTAURA is a class M15 fibred structural mortar based on NHL 5.0 natural hydraulic lime, selected limestone aggregates with controlled grain size, fibers and specific additives that improve workability.

**PROFESSIONAL USE. UNI EN 998-2 COMPLIANT.**

Thanks to the quality and value of CALPURA LEGANTE, the product is ideal for the construction of historic masonry or in the green building sector. CALCEPURA RESTAURA has high water vapor permeability and limited reactivity to salts contained in the masonry, helping to improve living comfort. It is therefore a plastering product suitable for the restoration of old masonry structures.

**ADVANTAGES**

- Compatibility with materials of ancient tradition
- Absence of fungus and mold
- High water vapor permeability
- High mechanical performance

**WARNINGS**

Protect the product from rain, runoff, frost, rapid drying or strong ventilation for at least 48 hours after application.

### TECHNICAL DATA

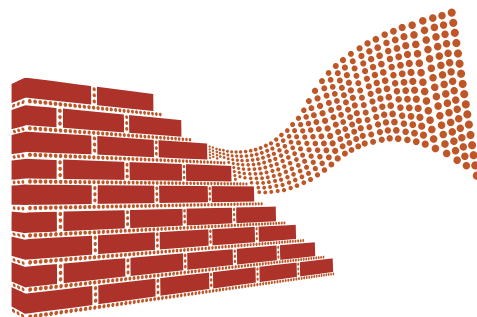
Class	M15 According to UNI-EN 998/2 . UNI-EN 998/1 - GP-CS II-W1 -
Colour	hazelnut
Particle size	< 3 mm
Powder apparent density mass (kg/m <sup>3</sup> )	1675
Fresh mortar apparent density mass (kg/m <sup>3</sup> )	2000
Hardened density mass (kg/m <sup>3</sup> )	1850
Hardened density mass dry (kg/m <sup>3</sup> )	1800
Compressive strength (N/mm <sup>2</sup> ) 28dd (UNI-EN 1015-11)	> 15 N/mm <sup>2</sup>
Mechanical resistance to bending (UNI-EN 1015-11)	≥ 0,5 h N/mm <sup>2</sup>
Mixing water (kg/m <sup>3</sup> )	19 (±2)%
Application temperature	+5 °C ÷ +35 °C
Time required with plastering machine	Approx. 30 sec.
Compound life time (pot life)	Approx. 1 h
Workability time	Approx. 40 min. (20-25 °C
Waiting time for troweling	15 min
Fire reaction	approx. 2÷3 mm
Water absorption	EUROCLASS A1
Thermal conductivity (v.t. P=50%)	< 0,4 kg/(m <sup>2</sup> .min <sup>0,5</sup> )
Water vapour diffusion resistance factor	0,15/35 W/mK
Initial shear strength	μ 15/35
Supply	25 kg bag / 1 pallet - 64 pcs /silo
Storage	In the original packaging and properly stored indoors in a dry place the product retains its characteristics about 12 weeks.



**ESINCALCE**  
Il meglio dell'edilizia.

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## SUBSTRATE PREPARATION

Before use, make sure the substrates are monolithic and of excellent consistency according to the correct construction rules. Substrates must be solid and free of: dust, grout milks, loose parts, oil stains, grease, paint, lime, plaster, rust. Remove any crumbling parts of the masonry.

Thoroughly wetting down particularly absorbent bricks, stones or bricks. If high salinity is present, we recommend pressure washer washing of the entire wall and subsequent treatment with ESICEM ANTISALE (see data sheet). Pre-treat smooth or poorly absorbent substrates with a coat of fluid or semifluid liquid grout made as follows:

1 part water

1 part of ESICAL LATTICE

2/3 parts of CALCEPURA BINDING

Prepare the connection of the structural elements by applying suitable plaster-bearing mesh.

## MIX PREPARATION

A common tilt-axis concrete mixer, planetary mixer, drill mixer or plastering machine can be used to prepare the mix.

Moisten the concrete mixer internally, taking care not to leave any water lodged in it.

Add water in the appropriate amount to obtain a homogeneous mix, about 4.5 liters bag.

## APPLICATION

Use CALCEPURA RESTAURA as a normal plaster mortar making sure to apply a minimum thickness of 2.5 cm per application coat. Apply a first coat at a low thickness (rinzaffata) and then proceed after about 4 hours (the time depends on the application temperature) with the first application coat. Wait at least 24 hours for the application of subsequent coats. Finish the job with a final coat of CALCEPURA INTONACO with a minimum thickness of 10 mm.

## WARNINGS

Protect the product from rain, runoff, frost, rapid drying or strong wind for at least 48 hours after application. Do not apply to plaster substrates, scagliola, painted substrates, wood elements, metal, plastic.

Wait at least 72 hours after patching the plaster before proceeding with the application of the skim coat (MALTA FINE or MALTA PRECONFEZIONATA).

## SAFETY INSTRUCTIONS

The provisions of Articles 10 and 14 and Annex V of Directive 1999/45/EC

**Hazard symbol: Xi (irritant)**

**Risk phrases**

R 36 Irritating to eyes

R 37 Irritating to respiratory system

R 41 Risk of serious damage to eyes

R 43 May cause sensitization by skin contact

**Cautionary statements**

S22 Keep out of reach of children

S22 Do not breathe dust

S24/25 Avoid contact with eyes and skin

S 26 In case of contact with eyes, wash immediately with plenty of water and consult a doctor

S36/37 Wear suitable protective clothing and gloves

S46 If swallowed, seek medical advice immediately a doctor and show him/her the contents and label.

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