



NATURAL LIME PLASTER

# INTONACO DI CALCE NATURALE



## DESCRIPTION

'Intonaco di Calce Naturale' is a special plaster based on Wasselonne NHL-2 hydraulic lime, designed for the protection, recovery and restoration of masonry walls, even if heterogeneous, in brick, tuff rock and natural stone. It has a specific formula that makes it highly permeable to water vapour. It's meant for filling, rendering, base coating and rustic finishes. Also suitable for new or old walls for both internal and external. Due to its properties and natural colouring, it is particularly compatible for use on historical and artistic buildings as well as for green building.

## INSTALLATION

The substrates to be plastered must be stable, clean, consistent, free from weak parts, dust, bacterial proliferation, saline efflorescence, oils, greases, waxes, residues from previous processing, etc. If necessary, carry out a preventive cleaning of the substrate by pressure washing or sandblasting. The product can be mixed manually with an electric mixer at low speed, or applied by mechanical projection using plastering machines for premixed products.

For manual applications, mix ICN by adding approximately 6.0-6.5 liters of clean water per 25kg bag in the cement mixer. First put the water in the concrete mixer, then add the powder and mix for about 2'-3' minutes, until a homogeneous and lump-free mixture is obtained. Apply the product with a trowel like a traditional plaster. The mixed product can be used within 3 hours of its mixing with water. The provision of corner protectors, splitting strips, level guides, etc. must be performed before applying the plaster layer on the entire wall.

For mechanical projection applications, apply the product evenly, in a single layer, with a thickness between 10 and 20 mm. It is possible to overlap successive layers as long as the previous layer is not yet completely dry. Subsequently, the plaster is leveled and finished through the use of an aluminum straightedge. Any burrs or excess material are eliminated by scraping and rubbing the surfaces.

When the plaster must be carried out on uneven substrates or constructive changes, interpose in the plaster the glass fiber reinforcement mesh with ARMANET 10x10 anti-alkaline primer. The mesh must be extended approximately 30 cm beyond the discontinuity line between the materials and be applied in the thickness of the plaster and not in complete adherence to the masonry. The surfaces thus prepared are suitable for receiving finishing products.

## COMPLIANCE

General purpose (GP) mortar for interior / exterior plasters - EN 998-1

## INDICATIVE CONSUMPTION

13 kg per m<sup>2</sup> per cm of thickness.

## COMPOSITION

Premixed mineral plaster based on natural hydraulic lime of Wasselonne NHL 2, siliceous and calcareous aggregates selected and dosed in an appropriate granulometric curve and specific additives that improve its performance in terms of workability, breathability and adhesion to substrates.

## PERFORMANCE TECHNICAL DATA

- Natural color: light hazel beige
- Density of the powder: ~ 1350 kg/m<sup>3</sup> - EN 1015-10
- Maximum diameter of the aggregate: 2,0 mm
- Density of fresh mortar: ~ 1750 kg/m<sup>3</sup> - EN 1015-6
- Density of the hardened mortar: ~ 1450 kg/m<sup>3</sup> - EN 1015-10
- Adhesion: 0,15 N/mm<sup>2</sup> (FP) B - EN 1015-12
- Air content of the mix: 17% - EN 1015-7
- Compressive strength: 2,0 N/mm<sup>2</sup> CS II - EN 1015-11
- Flexural strength: 1,0 N/mm<sup>2</sup> - EN 1015-11
- Water absorption by capillarity: W0 - EN 1015-18
- Coefficient of permeability to water vapour: 15 - EN 1015-19
- Thermal conductivity: 0,47 W/mK  
(average value from prospectus; P=50%) - EN 1745, A.12
- Specific heat capacity 1,0 kJ/kgK - EN 1745, A.12
- Reaction to fire: Class A1 - EN 13501-1
- Dangerous substances: See SDS - EN 998-1
- Durability: Assessment based on local provisions of intended use of the mortar - EN 998-1.
- Packaging: 25 kg bag;
- Storage: keep in a covered and dry place.
- Storage: 12 months in original intact packaging, away from humidity

## WARNINGS

Avoid application at temperatures below + 5 ° C, in the presence of strong rain winds and under direct sunlight, or above + 35 °C. Temperatures below + 8 ° C with a high percentage of relative humidity can give rise to superficial carbonation phenomena. The chromatic aspect may vary according to the environmental conditions of application. At high temperatures it is recommended to wet the substrate with water before applying the plaster; it is advisable to wet the plaster for a few days after laying in order to avoid cracking and high dehydration, which would decrease its mechanical resistance. Avoid application on frozen, dusty, unstable and inconsistent substrates. Apply the finish coating with thicknesses ranging from 10 to 20 mm per coat. Protect the applied product from frost, rain and fast drying for the first 24 hours after application. ICN - Intonaco di Calce Naturale is a product with natural coloring and is therefore susceptible to chromatic variations due to the progress of the extraction of the marly limestone.

## NOTE

Product for professional use. The data and prescriptions reported in this sheet, based on the best practical and laboratory experiences, are to be considered indicative in any case. Considering the different conditions of use and the intervention of factors independent of Senini (type of substrate, environmental conditions, directions of technical installation, etc.), whoever intends to use it is therefore required to establish whether the product is suitable for use or not. Our guarantee obligation is therefore limited to the quality and constancy of the same in relation to the finished product, and exclusively for the above data. The Senini company reserves the right to make technical changes without prior notice. This technical data sheet cancels and replaces any previous edition.

## APPLICATION DATA

- Mixing water: 24-26%
- Mixing ratio: 1 bag + 6.0-6.5 L of water
- Application temperatures: between + 5 ° C and + 35 ° C
- Workability time: ≥ 180 minutes