

RENDERS AND FINISHES



AVAILABLE IN BAGS OF 25 KG

DESCRIPTION

ICN - Intonaco di Calce Naturale is a special plaster based on natural hydraulic lime NHL 5, designed for the protection, recovery and breathable conservative restoration of masonry walls, including heterogeneous ones, in brick, tuff rock and natural stone. Its specific formulation ensures high water-vapour diffusion permeability, making it suitable for filling, scratch coats, base coats and rustic finishes on new or existing walls, both internal and external. Due to its properties and natural colouring, it is particularly recommended for works on buildings of historical and artistic interest, as well as for eco-friendly green building applications.

INSTALLATION

The substrates must be stable, clean, solid and free from weak parts, dust, biological growths, saline efflorescence, oils, greases, waxes and residues from previous work. If necessary, clean the substrate in advance by pressure-washing or sandblasting. The product can be mixed manually with a low-speed electric mixer or applied by mechanical projection using machines for premixed mortars. For manual applications, mix ICN by adding approximately 6.0–6.5 litres of clean water per 25-kg bag. Add the water first, then the powder, and mix for 2–3 minutes until a homogeneous, lump-free mixture is obtained. Apply the product manually with a trowel as a traditional plaster. Use the mixed product within 3 hours. Corner beads, division strips, level guides and similar elements must be installed before applying the plaster. For mechanical projection, apply the material in a single, even coat, with a thickness between 10 and 20 mm. Additional coats may be applied as long as the previous one is not completely dry. Afterwards, level and finish using an aluminium straightedge. Remove burrs or excess material by scraping and planing the surfaces. On heterogeneous substrates or in the presence of structural discontinuities, embed the ARMANET 10x10 alkali-resistant glass fibre mesh. The mesh must extend about 30 cm beyond the discontinuity line and must be placed within the plaster thickness, not directly against the masonry. The prepared surfaces are then suitable to receive finishing products.

COMPLIANCE

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

COMPOSITION

Premixed mineral plaster based on natural hydraulic lime NHL 5, 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.

TECHNICAL DATA

- Natural color: light hazel beige
- Density of the powder: ~ 1350 kg/m³ - EN 1015-10
- Maximum diameter of the aggregate: 2,0 mm
- Density of fresh mortar: ~ 1750 kg/m³ - EN 1015-6
- Density of the hardened mortar: ~ 1450 kg/m³ - EN 1015-10
- Adhesion: 0,15 N/mm² (FP) B - EN 1015-12
- Air content of the mix: 17% - EN 1015-7
- Compressive strength: 2,0 N/mm² CS II - EN 1015-11
- Flexural strength: 1,0 N/mm² - EN 1015-11
- Water absorption by capillarity: W0 - EN 1015-18

WARNINGS

Avoid application at temperatures below + 5 ° C, in the presence of strong winds or rain 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 coats with thicknesses between 10 and 20 mm. Protect the applied product from frost, rain and rapid drying for the first 24 hours after application. ICN - Intonaco di Calce Naturale is a product with natural colouring 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.

INDICATIVE CONSUMPTION

13 kg per m² per cm of thickness.

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
- 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