



BIO INTONACO

Fiber-reinforced plaster for masonry. Based on pure NHL 3.5 certified natural hydraulic lime and Zeolite. Highly breathable, it prevents the formation of mold.



TECHNICAL FEATURES

BIO INTONACO is a special highly breathable mineral-based primer plaster, based on natural hydraulic lime NHL 3.5 CE marked according to the EN 459-1 standard, very pure zeolite and recycled aggregates. Suitable for mechanized or traditional “by hand” application, on walls and ceilings, indoors and outdoors. Its high breathability and the content of natural limes give it healthy and hypoallergenic properties, such as preventing the formation of mold. **BIO INTONACO** is characterized by a low modulus of elasticity and by the excellent characteristics of workability and practicality of use that allow technically very performing projects in a short time. **BIO INTONACO** guarantees adherence to substrates and optimum consistency of performance over time.

FIELD OF APPLICATION

BIO INTONACO is applied on internal and external walls and ceilings, it can be applied on all normal traditional supports, such as bricks, bricks, concrete blocks, mixed masonry, as well as rough concrete with rough surface.

PREPARATION OF THE SUBSTRATE

The substrates to be plastered must be solid, stable and clean: dust, paint, dirt or release agents must be suitably treated and eliminated. Mechanically remove any dusty or detached parts. It is advisable to pre-treat mixed masonry or masonry with varying degrees of absorption and particularly absorbent substrates with **HERALAX AC**. On particularly smooth and compact surfaces such as poured concrete, it is necessary to prepare a substrate with adequate adhesion by previously applying a rough coat (3 ÷ 5 mm) or using **HERALAX GRIP**. Wet the substrates with water, especially if exposed to direct sunlight, about an hour before plastering so that they have time to cool and dry on the surface. Very humid substrates can slow down the setting.

MECHANIZED APPLICATION

The product can be mixed and applied mechanically with a common plastering machine available on the market. Arrange the level strips and the edge protectors and then start “spraying” the product starting from the lower part and then going upwards. Using a straightedge, level and smooth the plaster with horizontal and vertical steps. The minimum application thickness must never be less than 1 cm or greater than 2 cm for a single coat of application. In the event that plaster thicknesses are greater than 2 cm or in unfavorable application conditions, the application must be carried out in several layers taking care not to smooth the first layer and to wait the following day for the second application. After about 4 – 6 hours from application and depending on the environmental thermal conditions, prepare the plaster for the finishing treatments, making the surfaces uniform and regularizing the corners. If the surface has to be painted, it is advisable to apply the finishing smoothing **BIO RASANTE**, a highly breathable smoothing compound based on natural hydraulic lime and zeolite with a “civil” finish (the use of breathable water-based paints is recommended). When there are no particular aesthetic requirements, a rustic finish can be obtained by directly finishing **BIO INTONACO** with a plastic, sponge or wooden trowel. Remember that the application of very smooth and “closed” finishes tend to block the high breathability of **BIO INTONACO**. The freshly mixed mortar must be used within 2 hours.

MANUAL APPLICATION

In case of manual application, mix **BIO INTONACO** with clean water at the rate of approximately 20.5 % (5Lt–5.5Lt per 25 kg bag). Slowly add the powder to the water, mixing with a low-speed mixer fitted with a propeller, until a homogeneous, lump-free mortar is obtained; a maximum mixing time of 2 ÷ 3 minutes is recommended. Mixing with a concrete mixer is always not recommended because it can cause an anomalous incorporation of air, compromising the final mechanical performance. Apply the material with a trowel and spatula.

CLEANING

The tools used must be washed with water before the mortar begins to set; subsequently, cleaning can only take place by mechanical removal.

ITEM OF SPECIFICATIONS

Highly breathable and hypoallergenic base plaster performed with premixed mineral plaster based on natural hydraulic lime NHL 3.5 compliant with standard EN 459. The plaster must comply with standard **EN 998-1** as **GP-CSII-WO** as **BIO INTONACO** produced by the company **HERAKEM SRL**.

WARNINGS

- **BIO INTONACO** is mixed with clean water without adding other products.
- If mixed manually, do not exceed 2 ÷ 3 minutes of mixing.
- Do not mix with a muller or concrete mixer.
- Do not apply in direct sunlight or with strong ventilation.
- Do not apply on frozen substrates or in any case at ambient temperatures below + 5 ° C, because the hardening of the product is based on the hydraulic setting of the binders which, at low temperatures, is excessively delayed with consequent anomalous hardening.
- Protect the applied plasters for at least 24 ÷ 48 hours from rain or washout and for at least 7 days from frost or rapid drying due to wind or beating sun.
- Subsequent finishes must be applied only after hardening and drying.
- In the junction points of two different materials and in the most delicate points (e.g. window corners, door corners, etc.), where the mechanical stresses are greater, it is recommended to use (drown) a special mesh for plaster.

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)

Appearance	Powder with a characteristic hazelnut color	Compressive strength	category CS II (EN 1015-11)
Customs heading	3823 50 90	Adhesion to the substrate	0,3 N/mm ² (EN 1015-12)
Aggregate size	< 2,5 mm	Water absorption	W0 (EN 1015-18)
Apparent specific weight of powder	1,3 gr/cm ³	Thermal conductivity	0,52 W/m·K (tabulated value)
Mixing water	about 20 ÷ 21 % by weight	Permeability to water vapor	5÷20 μ (EN 1745 tabulated value)
Mixing water per 25 kg bag	about 5 ÷ 5,5 liters	Moisture resistance	excellent
Application temperatures	from +5°C to +30 °C	Resistance to aging	excellent
Maximum application thickness	20 mm for each coat	Durability to freeze / thaw	excellent
Density (dry hardened mortar)	about 1500 kg/m ³ (EN 1015-10)	Final hardening	28 days

Consumption	approx. 9 ÷ 10 kg/m² per cm of applied thickness	Packaging	25 kg bag
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PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.