



la scelta giusta
per grandi progetti.

SCHEDA TECNICA



IP 100 BIO

READY-MIXED NHL 3,5 NATURAL
HYDRAULIC LIME-BASED
PLASTER



PRODUCT

Ready-mixed, ecofriendly and breathable NHL 3.5 natural hydraulic lime-based powder plaster compliant with EN 459-1 standard. Indoor/outdoor to be applied by hand or machine.

CHARACTERISTICS

Easy, fast and cheap to use, it has excellent adhesion to substrates, good water vapor permeability, hardening with low tensions.

APPLICATION FIELDS

Walls and ceilings, inside and outside, of buildings for civil and industrial use.

SUBSTRATES

Natural stones, blocks, bricks, new termobricks and concrete blocks.

CONSUMPTION

15,0 - 16,0 kg/sqm per 10 mm of thickness.

PACKAGING

25 kg bags on pallets of 1500 kg.

STORAGE

12 months in a dry place in its original packaging.

ITEM SPECIFICATIONS

The manual or mechanical plastering of the substrate of internal and external masonry in natural stone, blocks, bricks must be made with specific pre-mixed plaster such as IP 100 BIO by Edilcol Italia, mixed only with water and applied in one or two layers with a thickness of 1-2 cm for coat and that has a compressive strength ≥ 3 N/sqmm after 28 days.

PREPARATION

- Moisten and check that the substrates are clean, tough, rough and homogeneous.
- Place corner guards and wings.
- Adjust the flow of the plastering machine at about 18 liters for every 100 kg of powder or mix a bag of IP 100 BIO with about 4 - 5 liters of water, to obtain a consistent and plastic mortar.

APPLICATION

- Apply with a thickness of 1 - 2 cm in a single coat positioning at about 20 cm (machine application) of distance and then, after few minutes of waiting, level with a metal straightedge.
- For thicknesses greater than 2 cm apply a second coat after 24 hours.
- After about 3 - 6 hours, at completed hardening process, smooth the surface and square corners and edges.

RECOMMENDATIONS

Do not apply on flimsy, friable or painted substrates. Do not apply on gypsum, insulating blocks and cellular concrete.

In summertime always moisten the day before the application and subsequently, for a few days, to prevent rapid drying.

Avoid exterior application in very windy days, on frozen or thawing substrates, with frost risk in the next 24 hours and at temperatures below +5 ° C to +35 ° C.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

DATI TECNICI

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Appearance:	Hazelnut, white powder	
Composition:	natural hydraulic lime NHL 3.5, selected aggregates, additives	
Granulometry:	≤ 1,5 mm	
Application temperature:	+ 5°C / + 35°C	
Mixing water:	≈ 18 %	
Consistence of fresh mortar:	≈ 175 mm	(EN 1015-3)
Density of fresh mortar:	≈ 1,8 Kg/l	(EN 1015-6)
Density of dried mortar:	≈ 1,6 Kg/l	(EN 1015-10)
Pot life	≈ 2 hours	
Plaster application:	manual - mechanical	
Plaster thickness:	1 - 2 cm per coat	
Waiting time for second coat:	≈ 24 hours	
Waiting time for smoothing:	≈ 6 hours	
Compressive strength:	≥ 3 N/sqmm - Category CSII	(EN 1015-11)
Flexural strength:	≥ 1,5 N/sqmm	(EN 1015-11)
Adhesion - FP:	≈ 0,7 N/sqmm- B	(EN 1015-12)
Capillary absorption:	Category W0	(EN 998-1)
Permeability to water vapor μ:	15/35 (tabulated value)	(EN 1745)
Thermal Conductivity (λ _{10,dry}):	0,76 (tabulated value)	(EN 1745)
Reaction to fire:	Class A1	(EN 13501)
Contribution to smoking:	none	
Hazard classification:	none	(EC 99/45)