

CALCE IDRAULICA NATURALE NHL 3.5

DATA SHEET

NHL 3.5 natural hydraulic lime



Composition

CALCE IDRAULICA NATURALE NHL 3.5 is produced by firing a calcareous marl in traditional running kilns at 1,100°C. Subsequently, after slaking, the lime is "seasoned" for an extended period of time, which ensures its complete hydration; finally, it is ground and refined with wind separators.

Diffraction analysis reveals the presence of dicalcium silicate and calcium hydroxide (free lime), typical of natural hydraulic limes. CALCE IDRAULICA NATURALE NHL 3.5 features slow and gradual setting, with a continuous increase in mechanical strength during the months following application.

Supply

- Special bags with moisture protection from approx. 25kg

Use

CALCE IDRAULICA NATURALE NHL 3.5 is used for the preparation on site of masonry mortars, plasters and renders for interiors and exteriors. The mechanical characteristics, high degree of porosity and low water-soluble salt content of mortars made with CALCE IDRAULICA NATURALE NHL 3.5 make them ideal for use in restoration, renovation and green building work.

Mixing

CALCE IDRAULICA NATURALE NHL 3.5 must be mixed with carefully washed and well-graded aggregates, in predefined doses, verified on the basis of preliminary mixing tests.

The water used for mixing must be dosed so as to obtain the desired workability, taking into account that workability of the mix improves if it is allowed to stand for half an hour before application.

Warnings

- Product for professional use.
- Only apply exclusively at room and substrate temperature between +5°C and +30°C, in the absence of wind, to prevent it from breaking up due to freezing or the formation of cracks and "burn marks" due to the rapid evaporation of water.
- When used on site, it is recommended to prepare the mixes based on practical tests, as the variety of aggregates available on the market does not allow the use of standardised dosages.
- Where renovating plasters and renders for damp walls are required, use the specific EX NOVO line products.

Storage

Keep dry for a period not exceeding 12 months. Once the product has expired, it must be disposed of in accordance with current legislation.



Quality

CALCE IDRAULICA NATURALE NHL 3.5 is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled.

Technical Data

Physical state	Solid. in powder form
Color	Light hazelnut
Specific weight	2.5-2.7 g/cm ³
Apparent vol. mass	0.70-0.78 g/cm ³
Compressive strength after 28 days (EN 459-1)	≥ 3.5 N/mm ²
Compressive strength after 56 days	≥ 4.5 N/mm ²
Time to begin setting	5 hours
Air content	≤ 5%
SO ₃	< 0.3%
Free lime	> 25%
Residue 200 μm	< 0.2%
Residue 90 μm	< 4%
Compliant with standard EN 459-1:2010	

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must check that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: area.technica@fassabortolo.com, ES: asistencia.technica@fassabortolo.com, PT: assistencia.technica@fassabortolo.com, FR: bureau.technique@fassabortolo.fr, UK: technical.assistance@fassabortolo.com).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.