



Limepor NHL/Z FIBRATO

ST6-0221

Natural Hydraulic Lime based product to be mixed with aggregates in order to obtain mortars for plasters and masonry structures.

DESCRIPTION

Limepor NHL/Z FIBRATO is a fibre reinforced product made out of NHL, presenting a hazel-beige colour.

Mixed with an appropriate ratio of washed sand of a suitable granulometry and water, **Limepor NHL/Z FIBRATO** creates masonry mortars that can be used for plasters/renders, in break-fill jobs, stucco work and pointing of brick or stone facades.

In contact with water, the hydraulic lime reacts to form hydrated products that are extremely insoluble and very stable in terms of the chemical base.

The product is CE marked for interior and exterior plaster, as GP CS III mortar, in compliance with the 998-1.

ADVANTAGES

- Excellent colour effect.
- Low content of water-soluble salts.
- Physically and chemically compatible with the components used in masonry structures.

USES

Limepor NHL/Z FIBRATO, mixed with local sands of suitable granulometry and colour, is suitable for patching methods, tiling of terracotta or stone facades, screeds.

APPLICATION

	Manual application		Normal setting time : 120 ± 30 mins
	Mechanical device application		

Limepor NHL/Z FIBRATO has to be mixed on site with drinking water and washed aggregates with a suitable granulometry and colour; the quantity is about 300 kg/m³ depending on the application (see table).

The minimum amount of mixing water possible must be added, depending on the humidity of the inert materials: excess water will impair the final performance of the product.

We recommend you to add 3/4 of the water required in the mixer then gradually add the remaining amount until you get the right consistency. Mix carefully until you get a smooth mixture.

Surfaces to be treated should be compact, cleaned thoroughly with a high pressure washer and damped to saturation point without leaving any excess water. Apply with normal manual or mechanical tools. Do not remix by adding water to the product when it has already started to set. **Limepor NHL/Z FIBRATO** must be applied to clean, dust-free surfaces with no loose parts or traces of paint, grease or any other material that may impair its bonding power.

CONSUMPTION

300 Kg/mc of mortar

PACKAGING

20 kg multilayer paper bags.

STORAGE

Protect from humidity. Store in a dry, sheltered place.

Stored in these conditions and in unopened containers, the product remains stable for 12 months.

Use	Aggregate	Dosage of binder mix
Screeds	Gravel from 0 to 8mm	300 Kg/m ³
Mortar bed	Gravel from 0 to 5mm	350-500 Kg/m ³
Rendering mortar	Gravel from 0 to 5mm	350-500 Kg/m ³
Plasters	Sand from 0 to 3mm	350-500 Kg/m ³

Characteristics	Value
Appearance	Powder
Colour	Beige - hazel
Application temperature	+2 - +35 °C
pH in water dispersion	11,5 - 12,5
Particle-size distribution EN 1015-1 granulometry 0,09mm	100 %
Particle-size distribution EN 1015-1 granulometry 0,06mm	91 %
Curing time EN 196-3 start setting	120 ± 30 mins
Curing time EN 196-3 end setting	230 ± 30 mins
Bleeding UNI480-4	None
Compressive strength in 7 dd EN 196-1	> 1,7 MPa
Compressive strength in 28 dd EN 196-1	> 3,9 MPa
Flexural strength in 7 dd EN 196-1	> 0,6 MPa
Flexural strength in 28 dd EN 196-1	> 1,2 MPa

Characteristics	Limit value for GP mortars	Value
Compressive resistance at 28 days EN 1015-11	CS I (0,4 – 2,5 Mpa) CS II (1,5 – 5 Mpa) CS III (3,5–7,5 Mpa) CS IV (≥ 6 Mpa)	CS III
Adhesion EN 1015-12	Declared value	> 0,6 N/mm ² - FP: B
Capillar water absorption EN 1015-18	Declared value	W0
Coefficient of permeability of water vapour EN 1015-19	Declared value	μ ≤ 15
Thermal conductivity I _{10, dry, mat} Values EN 1745	Average value as per table (P = 50%)	0,62 W/m*K
Reaction to fire EN 13501 - 1	Declared value	A1
Durability	Declared value	NPD

Characteristics of mixture made of 300 Kg/m ³ of binder*	Value
Compressive strength in 7 dd EN 196-1	> 4,4 MPa
Compressive strength in 14 dd EN 196-1	> 6,0 MPa
Compressive strength in 28 dd EN 196-1	> 8,4 MPa

Flexural strength in 7 dd EN 196-1	> 1,2 MPa
Flexural strength in 14 dd EN 196-1	> 1,5 MPa
Flexural strength in 28 dd EN 196-1	> 2,1 MPa

*mixture for the production of screeds with 300 Kg / m³ of binder, 7% mixing water, with standard sand.

WARNING

Product for professional use. The use of natural raw materials may result in natural colour variations from one production batch to another.

If the product is not covered, use only material from the same batch of production and organize the installation in continuity or, if this is not possible, apply the product for environments definitida cuts in correspondence with string courses, edges, etc..

Only use enough water to obtain the right mix. Before using, check bags have not been damaged, and do not use the product if there are any lumps. Use the entire contents once the bag has been opened. Do not apply **Limepor NHL/Z FIBRATO** to surfaces with loose, flaky parts: contact our technical support service for assistance. Do not apply at temperatures under +2 °C, to surfaces in direct sunlight, when it is about to rain, or on windy or misty days.

The manufacturer shall not be liable for any damage to the equipment resulting from an improper use of the material.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety. All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control. The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.