



PURE NATURAL HYDRAULIC LIME MORTAR FOR RESTORING AND LEVELING OFF SUBSTRATES, RENDER AND COATINGS.



## PRODUCT DESCRIPTION

Finwall 500 NHL is a wall coating made from pure hydrated lime, hydraulic binder, marble powder, superior graded sand, water repellent material and plant-based additives to improve workability and adhesion. The special formulation and the nature of the raw materials used make the wall perfectly breathable.

## FIELD OF APPLICATION

- Smoothing and leveling layers with a textured finish on macro-porous, de-humidifying render when renovating masonry of old buildings damaged by capillary rising damp, including buildings of historical and artistic interest.
- Smoothing and leveling layers with a textured finish on breathable and “structural” base render.
- Smoothing and leveling layers with a textured finish on lime-based render damaged by atmospheric agents, surrounding environmental conditions or ageing.
- Textured finish on internal/external macro-porous, de-humidifying render with a rough finish.
- Textured finish on new render or old lime-based render on stone, brick, tuff and mixed masonry, including on old buildings of historical and artistic interest and

listed buildings.

- Textured finish on breathable and “structural” lime-based render.

## SUITABLE SUBSTRATES

- Concrete
- Cement Mortar
- Anhydrite surfaces
- Ceramic Tile and Stone primed with DCI Grip Primer

## LIMITATIONS

- Do not use for finishing thicknesses greater than 5 mm.
- Do not apply at temperatures below +5°C or above +35°C.
- Do not add cement, lime, gypsum or aggregates.
- Do not use directly on gypsum or anhydrite surfaces.
- Do not apply on dirty or crumbling surfaces.
- Do not apply on painted surfaces or surfaces covered with plastic coatings.
- Do not use on windy days or when the surfaces are subject to direct sun light.
- Do not for skimming or ceramic or wooden floors.
- Do not apply on dehumidified renders.

## APPLICATION PROCEDURE

### **A) Preparation of the substrate**

The surfaces to be smoothed and leveled must be clean, sound and free of dust and crumbling areas. It is also recommended to score the surface of new render with a metal-tipped tool to remove any surface laitance and make it easier for the smoothing and leveling mortar to adhere and prevent the formation of air bubbles. Wet the surface of the render before applying smoothing and leveling mortar.

### **B) Preparing the product**

Using an agitator, pour a 25-kg bag of Finwall 500 NHL into a receptacle containing 6.5-7.0 liters of water, mixing continuously at low speed until a homogeneous lump-free paste is obtained. Larger amounts can be prepared in a mortar mixer. Let the paste sit for a few minutes and then mix again briefly. The paste is then ready to apply. The mix is workable for at least 4 hours.

### **C) Applying the product**

Apply the compound to a maximum of 3 mm thick with a flat metal trowel on the surface. Porous substrates, such as renders or concrete, must be dampened with water beforehand. The surface finishing can be carried out either with a flat metal trowel or with a sponge float several minutes after its application. During hot or windy weather, or in particularly hot areas, spray water on the surface of the smoothing compound when it starts to set and over the next few days when the mortar has completely hardened, to avoid quick drying and hygrometric shrinkage which may cause cracks to form. No particular precautions need to be taken at temperatures around +20°C. At high or low temperatures or with strong ventilation, the normal precautions for the use need to be taken. The product may only be used for decorating internal or external surfaces if they are partially covered and protected.

## COVERAGE / CONSUMPTION

The consumption is approximately 1.5kg/m<sup>2</sup> at 1 mm thickness.

## PACKAGING

Finwall 500 NHL is supplied in:  
– 25 kg paper bags.

## SHELF LIFE-STORAGE

Original sealed bags of this product are guaranteed to be of first quality for 12 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

## SAFETY INSTRUCTION

FINWALL 500 NHL is not considered dangerous according to the current regulations regarding the classification of mixtures. However, it is recommended to wear protective clothes, gloves, and goggles and take the usual precautions for handling chemicals. For complete information about the safe use of our product, please refer to the latest version of the Safety Data Sheet. PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA

| Product identity                                              |                                |
|---------------------------------------------------------------|--------------------------------|
| Consistency                                                   | powder                         |
| Color                                                         | grey or white                  |
| Maximum size of aggregate (mm)                                | 2                              |
| Bulk density (kg/m <sup>3</sup> )                             | 1,200                          |
| Dry solids content (%)                                        | 100                            |
| Application data (at +23°C and 50% R.H.)                      |                                |
| Color of mix                                                  | grey or white                  |
| Mixing ratio                                                  | 26-28 % of water               |
| Consistency of mix                                            | thixotropic-trowellable        |
| Density of the mix (kg/m <sup>3</sup> )                       | 1,600                          |
| Application temperature range                                 | from +5°C to +35°C             |
| Pot life of mix                                               | approx. 1 hour                 |
| Waiting time before finishing with float                      | 30 min                         |
| Maximum applicable thickness (mm)                             | 3                              |
| Waiting time before laying ceramic coating                    | 4 days                         |
| Final performances                                            |                                |
| Compressive strength (MPa)                                    | 2 CSIII                        |
| Bond strength on concrete (MPa)                               | ≥ 0.5 failure pattern (FP) = B |
| Capillary action water absorption [kg/(m <sup>2</sup> ·min )] | Category W1                    |
| Coefficient of permeability to water vapour (μ)               | Declared value ≤ 15            |
| Thermal conductivity (λ ) (W/m·K)                             | Chart value 0.40 (P = 50%)     |
| Reaction to fire                                              | A1                             |

### WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...



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