

DATA SHEET



Fibre-reinforced premixed plaster composed of NHL5 Natural Hydraulic Lime and Cork in granules (0-3 mm) Thermal, Dehumidifying, Sound-absorbing and Soundproofing. Absolutely Natural, Anti-mould and highly Breathable thanks to the macroporosity of both the mixture and the cork and to the properties of Lime considered the "natural bactericide par excellence". Particularly suitable for external thermal insulation (insulates from both cold and heat) for acoustic insulation and dehumidification of internal and external environments thanks to the inimitable properties of cork and the strength and solidity of Lime NHL5. Excellent fire reaction capabilities and is completely recyclable as an inert material at the end of its life.

GENERAL CHARACTERISTICS:

Naturcap is an exclusively natural premixed plaster made up of granulated cork, NHL5 natural hydraulic lime, anti-cracking fibers which, dosed and mixed together, give rise to an absolutely natural, dehumidifying, heat insulating and sound absorbing product.

PROPERTY':

Naturcap is absolutely natural, it does not damage because it is enriched with fibres, it lightens the structure, saves time, labor and money, resists over time, is fire resistant, allows for the creation of a breathable surface and is resistant to saline attacks.

- **Thermal insulating:** insulates from heat and cold by eliminating thermal bridges and condensation.
- **Sound-absorbing:** thanks to its alveolar structure it absorbs and dissipates sound waves thus attenuating noise.
- **Breathable:** as it is made up of light open cell aggregates.
- **Dehumidifier:** absorbs and expels capillary humidity from perimeter and dividing walls.
- **Antifreeze:** resists low temperatures and is not afraid of frost.

PHYSICAL/TECHNICAL DATA AND FINAL PERFORMANCE

1. **Product yield:** 4 kg/m²/cm of thickness \pm 5%
2. **Appearance:** Powder
3. **Color:** Beige/Light Brown
4. **Density:** 395 Kg/m³ \pm 5%
5. **Grain size:** 0 to 3 mm
6. **Minimum thickness:** 1.5 cm
7. **Maximum thickness per layer:** 2cm
8. **Storage:** 12 months
9. **Packaging:** Paper bag of kg. 25
10. **Certified thermal conductivity** (UNI EN 12667:2002): $\lambda = 0.046$ W/m²K
11. **Thermal resistance (R):** 0.217 m²KW
12. **Specific heat (C):** 1000 J/kgK - 0.240 kcal/kg °C
13. **Coefficient of water absorption by capillarity** (EN 1015-18): category W1 (1,03 kg/m²min^{0.5})
14. **Vapor permeability coefficient:** $\mu \leq 5$ (high breathability)
15. **Compressive strength** (UNI EN 1015-11): category CS III
16. **Reaction to fire** (UNI EN 13501-1): class A1
17. **Acoustic absorption coefficient** (thickness cm. 3) (UNI EN ISO 11654): $\alpha_w = 0.65$ (Class C)
18. **Sound absorption** (thickness cm. 3) (UNI EN ISO 354): $\alpha > 70\%$ between 500 and 1500 [Hz]
19. **Façade insulation** (brick 25 cm.+ cm.3): (UNI EN ISO 140-5) D2m,nT,w = **44 dB** (UNI EN ISO 717-1)
20. **Increase in the soundproofing power index (Rw)** (compared to a traditional plaster): approx. **3 dB**
(UNI EN ISO 140-2 /717 -1)
21. **Durability:** NPD.

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USE:

Naturcap is used as a base plaster in new buildings to insulate the walls from heat and cold eliminate the thermal bridges of the pillars and beams, to absorb the sound waves of the building and avoid the formation of condensation and mold.

APPLICATION:

Naturcap can be applied manually using a trowel, in a "cup" for plasters, or with a specific plastering pump (for more information, consult the installation manual).

Preparation of the support: carefully clean the wall to be treated from dust, saline efflorescence and detaching elements. It is essential to wet the surface before starting to plaster and during curing, especially in the summer and when heavily exposed to the sun

Preparation of the mix: **Naturcap** should be mixed with clean water to taste. for each kg bag. 25 of product. The product is mixed in a cement mixer or with mechanical stirring (approx. 8/10 minutes) until a homogeneous mixture is obtained. Let the mix rest before applying.

Application: Before the actual plastering, a base coat of more diluted **Naturcap** is applied as a scuff or adhesion shake to favor adhesion of the plaster to the support. Apply the product in successive coats with thicknesses not exceeding cm. 2. For correct application, it is recommended to position any guides and/or corner protectors and to level the applied product using an aluminum straight edge.

Subsequent treatments: the neutral or colored finish is to be carried out exclusively with transpiring products and is recommended after drying the product (variable according to the thickness applied and the environmental conditions). Before painting, wait at least 30 days to allow the plaster to carbonate naturally.

PACKAGING AND STORAGE :

Paper bag of kg. 25.

The packaged product is protected from water and frost, if stored in dry rooms on wooden pallets it will keep for at least 12 months from the date of production. The bag can be used partially but once opened, it must be stored in a dry and covered place.