

# DATA SHEET



**Fibre-reinforced premixed screed 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 insulating and soundproofing both flat and sloping roofs, walking surfaces, foundations, attics and screeds in general both internal and external. Thanks to the lightness and inimitable properties of cork combined with the strength and solidity of lime, NHL5 allows for thermal insulation without weighing down existing floors and structures. Excellent fire reaction capabilities and is completely recyclable as an inert material at the end of its life.**

## **GENERAL CHARACTERISTICS:**

**Naturmas** is an exclusively natural premixed screed made up of cork granules, 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':**

**Naturmas** 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/m<sup>2</sup>/cm of thickness ± 5%
2. **Appearance:** Powder
3. **Color:** Beige/Light Brown
4. **Density:** 395 Kg/m<sup>3</sup> ±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/m<sup>°K</sup>
11. **Thermal resistance (R):** 0.217 m<sup>2</sup>KW
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/m<sup>2</sup>min 0,5 )
14. **Vapor permeability coefficient:**  $\mu \leq 5$  (high breathability)
15. **Compressive strength (UNI EN 1015-11):** category CS III
16. **Compressive strength (UNI EN 13813):** category C7
17. **Flexural strength (UNI EN 13813):** category F2
18. **Impact insulation index (thickness cm. 4) (UNI EN ISO 140-7):** L' ntw = **47 dB** (500 Hz UNI EN ISO 717-2)
19. **Reaction to fire (UNI EN 13501-1):** class **A1**
21. **Durability:** NPD

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## *USE:*

**Naturmas** is used: in new buildings to insulate and soundproof both flat and sloping roofs, walking surfaces, foundations, attics and screeds in general; in the restoration and/or rehabilitation of old buildings to dehumidify the screeds and attics.

## *APPLICATION:*

**Naturmas** can be applied by hand or with a specific pump for screeds.

**Preparation of the support:** on the new it is applied as a normal screed; in the restoration and/or rehabilitation it is necessary to bring back to life the structural screed by eliminating old floors and screeds, carefully cleaning from dust, salt efflorescence and detaching elements. It is essential to wet the surface before starting the application and during the maturation, especially in the summer and when strongly exposed to the sun

**Preparing the mix:** **Naturmas** 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 until a homogeneous mixture is obtained. Let the mix rest before applying.

**Application:** **Naturmas** should be applied like a normal screed. For correct application, it is recommended to position the reference points/bands/guides beforehand (max. center distance 2.5/3 m) and to level the applied product using an aluminum straight edge.

**Subsequent treatments:** waterproofing can be carried out after **Naturmas** has dried for at least 20 days (average drying times are influenced by the conditions of temperature/ambient humidity/applied thickness and can also vary significantly), then you can move on to laying the floors or roof tiles.

## *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.