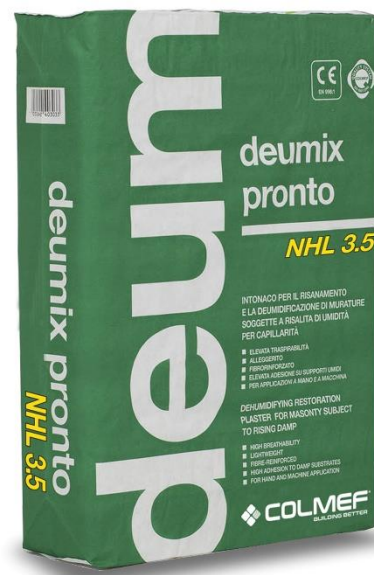


Deumix Pronto NHL 3,5

MINERAL PLASTER BASED ON NATURAL NHL 3.5 LIME AND ECO-FRIENDLY LIGHTWEIGHT AGGREGATES. FIBER-REINFORCED AND HIGHLY BREATHABLE, THE PRODUCT IS GUARANTEED FOR THE RESTORATION AND DEHUMIDIFICATION OF MASONRY SUBJECT TO CAPILLARY RISING DAMP. SUITABLE AS A DASH COAT AND PLASTER FOR BOTH INTERIOR AND EXTERIOR USE.



TECHNICAL DATA SHEET - REVISION 11/2024

DESCRIPTION

DEUMIX PRONTO NHL 3.5 is a lightweight, fiber-reinforced mineral mortar for professional use, composed of natural hydraulic lime NHL 3.5, natural aggregates and special additives for the production of highly breathable plasters. Mixed with water, it becomes an easy-to-apply, water-repellent product with high adhesion to damp substrates, also suitable as a dash coat. DEUMIX PRONTO NHL 3.5 promotes rapid evaporation of moisture present in masonry, while also limiting the formation of salt efflorescence. Its special composition prevents the growth of mold and bacteria, counteracts the cold-wall effect and improves living comfort.

Minimum applicable thickness: 2 cm.

Complies with European Standard EN 998-1: renovation mortars for internal/external plasters (R) - Compressive strength class CS II.

FIELDS OF APPLICATION

DEUMIX PRONTO NHL 3.5 is used to create new dehumidifying plasters, both indoors and outdoors, on damp above-ground walls, natural stone masonry, brick, tuff, clay block, etc., or for the restoration of damp masonry affected by the degrading action of rising damp and the formation of salt efflorescence. It can be used to rebuild old plasters deteriorated by atmospheric agents and is suitable both for the dash coat and for plastering masonry not subject to water infiltration or located in poorly ventilated environments.

SUBSTRATE PREPARATION

Completely remove deteriorated plaster up to the highest visible damp line, extending removal upward by a height equal to twice the wall thickness. Rake out the joints between masonry units to a depth of about 2 cm, removing all friable and incoherent material until a clean, compact substrate is obtained. Then wash the masonry, removing all dust and any remaining loose material, avoiding water stagnation. The day before applying DEUMIX PRONTO NHL 3.5, saturate the masonry with water.

For the remediation of large, particularly deteriorated surfaces, washing with a pressure washer or dry/wet sandblasting of the substrate is recommended.

Where rising damp is particularly evident, before replastering with DEUMIX PRONTO NHL 3.5, apply DEUMIX RISANAMURO ANTISALE by brush, roller or spray; it is a high-penetration, water-based impregnating treatment and salt inhibitor.

APPLICATION

For preparing the mix for manual application, pour 6-6.5 liters of clean water into a clean container or concrete mixer for each 25 kg bag of DEUMIX PRONTO NHL 3.5. Mix for 4-5 minutes until a plastic, homogeneous, lump-free consistency is obtained. Slightly increase the mixing water when trowel-applying the first layer as a dash coat.

For mechanized application, use a continuous-mixing plastering machine, such as PFT G4 with D6-3 rotor/stator. At start-up, set the flow meter to 400 l/h. If necessary, adjust slightly until the desired consistency and plasticity are obtained.

Before applying the plaster, apply a first coat of mortar over the entire surface as a dash coat, at least 5 mm thick. Then position screed guides in place of traditional level bands and remove them at the end of application. Regardless of the chosen application method, apply the second plaster coat to a minimum thickness of 2 cm. For greater thicknesses, build up with successive coats, applying each layer while the previous one is still rough. Level the plaster with an aluminum straightedge, taking care not to compress the plaster, until a flat surface is obtained.

For a more uniform finish than can be obtained with a float, use DEUMIX FINITURA, a lightweight, highly breathable, fine-grained mineral finishing coat. Finishing with DEUMIX FINITURA may be carried out at least seven days after application of the dehumidifying plaster and will not alter its characteristics.

After complete hardening (at least 2-3 weeks), decorate the surface with PITTURA TERMICA ANTICONDENSA, a highly breathable, anti-condensation, mold-resistant organic-mineral water-based paint with high covering power.

YIELD

10 kg/m² per cm of thickness.

RECOMMENDATIONS

- Apply the product at temperatures between +5 °C and +35 °C.
- For exterior applications, protect the surface from rain, washout, frost and direct sunlight until the product is completely hardened.
- During particularly hot or dry periods, carefully cure the plaster by misting water on the surface to prevent rapid evaporation of the mixing water and promote proper curing of the product.
- Do not apply to frozen substrates or substrates undergoing thawing.
- For finishing, use only highly breathable products suitable for renovation and dehumidifying plasters, so as not to alter their characteristics.
- Wash with water all tools used for preparation and application before the product hardens. Once set, the mortar can only be removed mechanically.

PACKAGING

DEUMIX PRONTO NHL 3.5 is supplied in 25 kg polyethylene-lined paper bags on 1500 kg pallets. Store the product in dry areas and in the original tightly closed packaging. Under these conditions, its shelf life is at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement which, in contact with body perspiration, produces an alkaline reaction that is irritating and sensitizing to the skin. Wear suitable clothing, gloves and protective goggles.

For more information on safe use of the product, refer to the relevant Safety Data Sheet.

SPECIFICATION

Restoration and dehumidification of masonry subject to capillary rising damp, made of natural stone, brick, tuff, clay block, etc., using a new-generation lightweight, fiber-reinforced, highly breathable mineral plaster, compliant with EN 998-1 for renovation mortars for internal/external plasters, class CS II, such as DEUMIX PRONTO NHL 3.5 by COLMEF Srl. Application shall be carried out manually or with a continuous-mixing plastering machine

such as PFT G4 with D6-3 rotor/stator, to a minimum thickness of 2 cm, at a consumption of 10 kg/m² per cm of thickness. The plaster may also be used as a dash coat at a minimum thickness of 5 mm. The plaster finish shall be made with a lightweight, highly breathable, fine-grained mineral skim coat, such as DEUMIX FINITURA by COLMEF Srl.

TECHNICAL DATA

Complies with Standard:	EN 998-1
Class:	R-CS II
Appearance:	powder
Color:	gray
Bulk density EN 1015-10 (kg/m ³):	1480
Mixing ratio:	6-6.5 liters of water per 25 kg of powder
pH value:	≥ 12
Maximum particle size (mm):	3 mm
Minimum application thickness (mm):	20
Waiting time before finishing:	7 days
Resistance to ageing:	excellent
Permitted application temperature:	from +5 °C to +35 °C
Service temperature:	from -30 °C to +90 °C

FINAL PERFORMANCE according to EN 998-1 Class R-CS II

	Requirements	Results	Test method
Compressive strength at 28 days (N/mm ²):	CS II (from 1.5 to 5.0)	≥ 4.93 (Cat. CS II)	EN 1015-11
Flexural strength (N/mm ²):	-	2.42	EN 1015-11
Adhesion to substrate (N/mm ²):	declared value and failure mode	≥ 0.73 (FP) A	EN 1015-12
Capillary water absorption (kg/m ²):	≥ 0.3	≥ 0.78	EN 1015-18
Water penetration after the capillary water absorption test (mm):	≤ 5	< 1	EN 1015-18
Water vapor permeability coefficient (μ):	≤ 15	≤ 11	EN 1015-19
Thermal conductivity (W/mK):	-	λ (10,dry) = 0.464	EN 1745

DATA RECORDED AT +23 °C - 50% R.H. AND NO VENTILATION

The information and instructions provided above are based on our best experience. However, we cannot accept any responsibility for improper use of the products. We therefore recommend that users evaluate whether the product is suitable for the intended use and in any case carry out preliminary tests. Always refer to the latest updated version of the technical data sheet, available at www.colmef.com.

FOR MORE INFORMATION OR SPECIAL APPLICATIONS, CONSULT THE COLMEF TECHNICAL ASSISTANCE SERVICE.

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