

Deumix Pronto Risanamuro Evolution

NEXT-GENERATION MINERAL LIGHTWEIGHT PLASTER, FIBRE-REINFORCED, HIGHLY BREATHABLE, GUARANTEED FOR THE REHABILITATION AND DEHUMIDIFICATION OF MASONRY SUBJECT TO CAPILLARY RISING DAMP. USABLE AS ROUGH COATING AND PLASTER FOR BOTH MANUAL APPLICATIONS AND WITH RENDERING MACHINE. FOR INDOORS AND OUTDOORS.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

DEUMIX PRONTO RISANAMURO EVOLUTION is a light-weight, fibre-reinforced mineral mortar for professional use, consisting of special hydraulic binders, natural aggregates and special additives for the production of highly breathable plasters. Mixed with water, it turns into an easy-to-apply, water-repellent product with high adhesion on damp substrates, which can also be used as a rough coat. DEUMIX PRONTO RISANAMURO EVOLUTION promotes the rapid evaporation of moisture in masonry, limits the formation of salt efflorescence, and prevents mould and bacteria from taking root, counteracting the cold wall effect and improving living comfort. Minimum applicable thickness: 2 cm.

Compliant with European Standard EN 998-1 for rehabilitation mortars for internal/external rendering (R) · Compressive strength class II (CS II).

FIELDS OF APPLICATION

DEUMIX PRONTO RISANAMURO EVOLUTION is used for the interior and exterior construction of new dehumidifying plasters on damp walls in elevation, natural stone, brick, tuff, brickwork, etc., or for the rehabilitation of damp walls subjected to the disintegrating action of rising damp and the formation of salt efflorescence. It can be used for the reconstruction of old plaster that has been degraded by atmospheric agents and is suitable for both rendering and plastering masonry that is not subject to infiltration or located in poorly ventilated areas.

SUBSTRATE PREPARATION

Completely remove damaged plaster up to the maximum visible point of dampness, increased by a height equal to twice the thickness of the wall. Excavate the joints between the masonry elements by approximately 2 cm, removing all friable and loose material until a clean and compact substrate is obtained. Then proceed to wash the masonry by removing all dust and any other traces of loose material, avoiding any water stagnation. The day before applying DEUMIX PRONTO RISANAMURO EVOLUTION, saturate the masonry with water.

For the restoration of large, particularly degraded surfaces, it is advisable to carry out pressure washes with a high-pressure cleaner or proceed with dry or wet sandblasting of the substrate.

In situations where the phenomenon of rising damp is particularly pronounced, before reconstructing the plaster with DEUMIX PRONTO RISANAMURO EVOLUTION, apply DEUMIX RISANAMURO ANTISALE, a highly penetrating, salinity-inhibiting, water-based impregnating agent by brush, roller or spray.

APPLICATION

To prepare the mix for manual applications, pour 5-5.5 litres of clean water per 25 kg bag of DEUMIX PRONTO RISANAMURO EVOLUTION into a clean container or concrete mixer. Mix for 4-5 minutes until the mixture has a plastic, homogeneous and lump-free consistency. Slightly increase the mixing water for trowel application of a first layer as a rough coat.

For mechanised applications, use a continuous mixing machine, type PFT G4 with a D6-3 rotor stator (tank). For start-up, set the flowmeter at 400 l/h. If necessary, slightly modify until the desired consistency and plasticity is achieved.

Before plastering, apply a first layer of mortar as a rough coat to the entire surface, at least 5 mm thick. Then place the boards in place of the traditional level strips, to be removed at the end of the application. Regardless of the chosen application method, apply the second layer of plaster for a minimum thickness of 2 cm. For greater thicknesses, recoat with successive passes, taking care to pass the different layers over the previous one that is still rough. Proceed with levelling the plaster with an aluminium straight edge, taking care not to compress the plaster, until a flat surface is obtained.

In order to achieve a more homogeneous finish than would be obtained by using a trowel, use DEUMIX RISANAMURO FINITURA fine-grained, highly breathable, lightened mineral smoothing compound. Smoothing with DEUMIX RISANAMURO FINITURA can be carried out at least seven days after the dehumidifying plaster has been applied and will not alter its characteristics.

After complete hardening, at least 2-3 weeks, decorate the surface with organic mineral water paint RISANAMURO PITTURA TERMICA ANTICONDENSA, which is highly breathable, anti-condensation, mould-resistant and has a high degree of coverage.

YIELD

10 kg/m² per cm of thickness.

RECOMMENDATIONS

- ◆ Apply the product at temperatures between +5°C and +35°C.
- ◆ For outdoor applications, protect the surface from rain, runoff, frost and direct sunlight until the product has completely hardened.
- ◆ In particularly hot or dry periods of the year, carefully cure the plaster by spraying water on the surface in order to prevent the rapid evaporation of the mixing water and thus favour proper curing of the product.
- ◆ Do not apply on frozen or thawing substrates.
- ◆ For finishing, apply only highly breathable products suitable for finishing renovating and dehumidifying plasters, so as not to alter their characteristics.
- ◆ Wash all the equipment used for preparation and application of the product with water before it hardens. After setting, the mortar can only be removed mechanically.

PACKAGING

DEUMIX PRONTO RISANAMURO EVOLUTION is available in 25 kg polyethylene coated paper bags on 1500 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement that, in contact with body perspiration, produces an irritant alkaline and sensitising reaction for the skin. Use suitable clothing, gloves and protective glasses.

Refer to the respective Safety Data Sheet for more information about how to use the product safely.

SPECIFICATIONS

Renovation and dehumidification of masonry subject to capillary rising damp in natural stone, block, tuff, brick, etc., with new-generation, fibre-reinforced, highly breathable, lightweight mineral plaster in compliance with Standard EN 998-1 for renovation mortars for indoor/outdoor plastering, class CS II, such as **DEUMIX PRONTO RISANAMURO EVOLUTION** by COLMEF Srl. Application must be carried out manually or with a continuous mixing plastering machine, type PFT G4 with rotor stator (tank) D6-3, for a minimum thickness of 2 cm, observing a consumption of 10 kg/m² per

cm of thickness. The plaster can also be used as a rendering coat for a thickness of at least 5 mm. The plaster shall be finished with a lightened, highly breathable, fine-grained mineral skimming plaster such as DEUMIX RISANAMURO FINITURA by COLMEF Srl.

TECHNICAL DATA

Compliant with Standard:	EN 998-1
Class:	R-CS II
Appearance:	powder
Colour:	grey
Volume mass EN 1015-10 (kg/m³):	1480
Mixing ratio:	5-5.5 litres of water per 25 kg of powder
pH value:	≥ 12
Maximum grain size (mm):	0-1.2
Minimum applicable thickness (mm):	20
Waiting time for finishing:	7 days
Resistant to ageing:	excellent
Allowed application temperature:	from +5 °C to +35 °C
Operating 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/mm²):	CS II (1.5 to 5.0)	≥ 4.93 (Cl. CS II)	EN 1015-11
Flexural strength (N/mm²):	-	2.42	EN 1015-11
Adhesion to the substrate (N/mm²):	declared value and failure mode	≥ 0.73 (FP) A	EN 1015-12
Capillary water absorption (kg/m²):	≥ 0.3	≥ 0.78	EN 1015-18
Water penetration after capillary water absorption test (mm):	≤ 5	< 1	EN 1015-18
Water vapour permeability coefficient (μ):	≤ 15	≤ 11	EN 1015-19
Thermal conductivity (W/mK):	-	λ _(10,dry) = 0.464	EN 1745

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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