

## Intonaco Deumidificante (Dehumidifying Plaster)

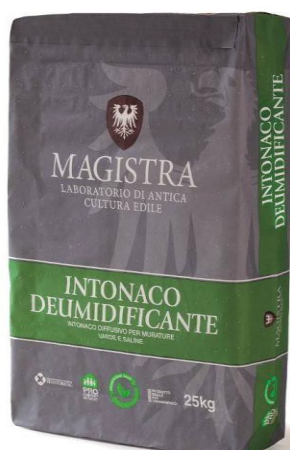
**INTONACO DEUMIDIFICANTE** is a pre-mixed product to be applied by hand or machine based on natural hydraulic lime (NHL 3.5 according to EN 459- 1:2010) with a typical light hazelnut colour, limestone aggregates with a grain size curve of 0.0 - 2.0 mm and reinforcing fibres. It is used indoors and outdoors as a macroporous plaster for load-bearing and infill masonry in brick, tuff, stone and mixed masonry.

The product consists of raw materials of natural origin and is free of polymers and products from chemical synthesis. It possesses physical and aesthetic characteristics very similar to historical mortars. It is therefore recommended in the restoration of historical masonry, in green building and in quality construction in general.

### FIELDS OF APPLICATION:

Ready-to-use mortar, to be added with water only, used for breathable, dehumidifying, renovating and protecting masonry subject to capillary rising phenomena. Suitable for both outdoor and indoor environments. Dehumidifying agent, it is used as a base plaster on suitably treated masonry substrates such as:

- common, thermo-acoustic and porous bricks;
- concrete blocks and autoclaved concrete;
- stone blocks, tuff and limestone;
- old bricks;
- for special substrates, the supplier's instructions must be observed.



## TECHNICAL CHARACTERISTICS

Shrinkage UNI EN 998-1	Renovation mortar (R)
Appearance	Powder
Colour	Hazelnut
Grain size	0.0 - 2.0 mm
Nature of binder EN 459-1	Natural hydraulic lime NHL 3.5
Compressive strength	Category CS1
Reaction to fire	Class A1
Water absorption EN 1015-18	W2
Thermal conductivity (tabulated value)	0.47 $\lambda_{10,dry}$ [W/mK]
Mixing water	26%
Apparent mortar density Shrinkage UNI EN 1015-6	1500 kg/m <sup>3</sup>
Apparent mortar density Shrinkage UNI EN 1015-10	1350 kg/m <sup>3</sup>
Incorporated air EN 413-2	> 30 %
Indicative consumption (cm thickness)	12 - 14 kg/m <sup>2</sup>
Porosity of hardened mortar	≥ 40%
Coefficient of resistance to water vapour UNI EN 1015-19	$\mu \leq 3$
Adhesion to substrate UNI EN 1015-12	≥ 0.2 N/mm <sup>2</sup>
Max. application thickness per coat	2 - 3 cm



## USE

Apply in 2 coats by trowel or machine on a suitably filled up and/or treated substrate with Rinzafo Magistra. Apply the first coat to form the body of the plaster and the second coat to finish, so as to obtain a homogeneous, vapour-permeable system.

## SUBSTRATE PREPARATION:

- The substrate must be clean, compact and rough: remove loose parts; remove dust, salt efflorescence, traces of oil and release agents by pressure washing and, if necessary, brushing the surface.

- All masonry joints must be filled with Magistra Grouting Mortar prior to plaster application.
- Use Rinzafo Magistra to prepare all smooth surfaces (stone, concrete, utility traces) by allowing it to cure for at least 7 days.
- Dampen the substrate before application (in particularly hot climates, it is also best to do it the evening before application).



## APPLICATION

Apply Intonaco Deumidificante Magistra in max. 2 cm thickness per single coat. Level the applied plaster with a rod without smoothing the surface too much; wait for the first hardening (24-48 hours) then apply a second layer of approximately 0.5 cm, which will be smoothed with a spatula and finished with a trowel.

## REINFORCING FIBRES:

Intonaco Deumidificante contains reinforcing microfibres within its formulation. These fibres are randomly distributed within the cement mortar, forming a three-dimensional network in the hardened product. The synergy developed from the collaboration between fibres, binders and aggregates facilitates the development of higher shrinkage resistance in the plastic phase and consequently ensures that the product can be laid even at high thicknesses without the risk of crazing, lesions and cracks.



## WARNINGS

- Do not mix Intonaco Deumidificante with other products.
- Apply only at room and wall temperatures between +5 °C and +30 °C in the absence of wind, to avoid disintegration phenomena due to frost or cracking and "burning" due to rapid evaporation of water. Do not use on permanently damp walls.
- Protect masonry from frost and rapid drying (cover with tarpaulins, wet if necessary) for at least 2 to 3 days after application.
- Do not apply in direct sunlight and protect the applied plaster with sunscreen netting.
- Protect from driving rain for 2 to 3 days after application, to avoid washout of unripe plaster, which would cause patina and dripping.
- The minimum plaster thickness for the dehumidifying cycle must be appropriately dimensioned according to the type and thickness of the masonry, the nature of the masonry and the surrounding environment.
- The correct dehumidifying cycle should be completed with a highly breathable lime or silicate-based stabiliser and finish.



- Attention: Natural lime plasters require longer processing and curing times than common cement-based premixes. A multiple-layer application is required, respecting the curing time for each layer.



## SUPPLY - STORAGE

25 kg damp-proof bag Stored dry in its original packaging, it retains its characteristics for up to 12 months.

The technical-practical information contained in the technical data sheet is the result of our most accurate and detailed scientific research and experience in the field. However, since we cannot directly influence the site conditions and the execution of the work, this information is to be considered non-binding and therefore not legally or otherwise mandatory for third parties. This information does not exempt the end user from their responsibility to test our products in order to ascertain their suitability for the intended use.

We therefore strongly advise the customer/applicator to carry out the appropriate preventive tests of Tradimatl products so that their suitability can be ascertained.

