

## TERMOINTONACO 2020 MGN

Nanotechnological thermal insulating lime plaster

TERMOINTONACO 2020 MGN is a high-performance lime plaster with high heat-insulating and reflectance characteristics based on natural limes with excellent sound-absorbing and acoustic properties, thermal displacement and fire resistance. Its remarkable porosity gives it a high breathability and vapor permeability, preventing mould and condensation.

### AREAS OF APPLICATION

Thermo-insulating and reflective lime plaster  
Thermal bridging regulator plaster  
Both internal and external use

### SUITABLE FOR

New constructions of any kind  
Restorations and renovations  
Redevelopments  
Green buildings

### COMPOSITION

Hydrated lime powder, certified to UNI EN 459-1 CL90S, with more than 90% calcium hydroxide  
Natural hydraulic lime NHL 3.5 certified UNI EN 459-1  
Lightened amorphous microsilica  
Natural components from rice as natural plasticizer

### CHEMICAL-PHYSICAL PROPERTIES

Grain size:	from 0 to 5 mm
Ph:	10.5
Specific weight:	278 kg / m <sup>3</sup>
Thermal conductivity:	$\lambda$ 0.043
Thermal conductance:	T1
Adhesion to the substrate:	0.1 N / mm <sup>2</sup>
Permeability to water vapor:	$\mu$ 5
Specific heat:	1000 J / kgK
Presence of harmful substances:	absent

## OPERATIONAL DATA

Packaging:	In 10 kg bags, 50 bags per pallet
Appearance:	white powder
Indicative thicknesses:	from 20 mm
Consumption:	4 kg / m <sup>2</sup> per cm of thickness (indicative) +/- 10%
Water intake:	7.5 liters per bag
Application temperature:	between + 5 °C and + 35 °C

## OTHER MGN LIME PLASTERS TO COMBINE WITH

Rinzaffo MGN  
Betoncino Consolidante MGN  
all MGN finishes

## APPLICATION

Can be applied manually or by plastering machine.

The operations below must be followed exactly to ensure the success of the application.

In the presence of rising damp or on cementitious substrates lacking adhesion, apply the Rinzaffo MGN waterproofing lime base coat (see technical data sheet) under the TERMOINTONACO 2020 MGN lime plaster. Apply at least 10 mm of RINZAFFO MGN plaster to full coverage as an adhesion bridge on reinforced concrete walls, on stone and tuff walls; or as a salt barrier on damp and salty walls or in the presence of rising damp.

### SUBSTRATE PREPARATION

If applied on existing brickwork, remove any old plaster, with particular care to remove all gypsum-based plasters. Clean deteriorated brick joints in depth. Replace deteriorated elements and close major holes with lime mortar and brick pieces.

Wash the masonry with a pressure washer to remove salts, dust, oils and additives. Dampen the walls to ensure gradual setting without "burning" the mortar. On new brickwork, dampen the substrate to be plastered to prevent the risk of sudden dehydration of the freshly applied mix.

For hand application, mix the TERMOINTONACO plaster for 3-5 minutes in a concrete mixer by pouring in the necessary water until a homogeneous-looking mixture with a creamy consistency is obtained. For machine application, pour the contents of the TERMOINTONACO bag into the plastering machine without adding any other materials or additives. Add to the plastering machine clean drinking water. A few tests are recommended to adjust the machine and the consistency of the mortar.

Apply the product in layers up to 20 mm thickness and level with a straight edge without compressing it. Insert a suitable fiberglass mesh net into the fresh plaster. Apply a new layer only when the previous one has hardened. The last layer must be straightened with a straight edge allowing it to cure for 15 to 20 days. Then apply a natural lime protective-decorative finish such as the [Rasante B-40 MGN](#) or [Rasacol MGN](#) (for internal application), or [Rasante B-2007 MGN](#) (for external application). Embedding a 4 mm fiberglass mesh into the finish minimizes the appearance of fine cracks during drying.

Application must be carried out at room and substrate temperatures between +5 and +30 °C and with R.H. not exceeding 70% in the absence of wind. The masonry should be protected from rapid drying by spraying water for the installation period, taking care to wet the construction elements before installation and to moisten the masonry during the period of the first setting of the mortar (3 - 10 days, depending on weather conditions).

**NOTE**

Although MGN plasters are easy to apply, they are subject to the quality of application. MGN reserves the right to modify the products at any time, should it deem it necessary, even without notice.