



Linea Mon Classica SCHEDA TECN

# **Termo Rasante Aerogel**

Nanotechnological lime thermal insulation plaster

RASANTE TERMO RIFLETTENTE MGN is a low thickness super-insulating thermal plaster coat. Anti-condensation, anti-mould, highly reflective and breathable. It can raise the temperature of the surface in a room by 3 to 5 °C by applying only a few millimetres. Thanks to its excellent reflectance, reflects the heat back into the room, providing high thermal comfort.

## **AREAS OF APPLICATION**

As a low thickness high performance thermal plaster Thermal bridge regulator, such as in window reveals Anti-mould and anti-condensation Reflective insulation for underfloor heating applications

## **COMPOSITION**

Granulation

Hydrated lime powder, certified to UNI EN 459-1 CL90S, with more than 90% calcium hydroxide NHL3.5 Natural hydraulic lime - desalinated white Lightened amorphous micro silica Nanotechnological aerogel

0-1 mm

## **CHEMICAL-PHYSICAL PROPERTIES**

Thermal conductivity λ 0.016 W/mK Equivalent thermal conductivity\*  $\lambda_{eq}$ 0.010 Solar reflectance (ASTM C151549-09) 0.82 SR Infrared emission (UNI EN 15976: 2011) 0.914 IE Solar reflectance index (ASTM E1980-11) 102.3%  $0.31 \Delta R (m^2 K/W)$ Increased resist. thermal (UNI EN1934: 2000) Water vapor permeability (UNI EN ISO 7783) V1 (high) Liquid water permeability (UNI EN ISO 1062-3) W2 (medium) Class B (s2, d0) what this means Fire resistance Specific heat 1000 J/kgK Adhesion (UNI EN 1542)  $> 0.5 \text{ N/m}^2$ Compressive strength\*\* NPD (not determined)

- \* data obtained by interpolation from the solar reflectance and infrared emission values
- \*\* according to other independent research papers, the compressive strength of various silica aerogels ranges between 0.8
- 1.1 N/mm<sup>2</sup>

## **SUITABLE FOR**

Restorations and renovations, including listed buildings Full insulation upgrades to modern standards Special structure buildings (e.g. solid stone walls) Passivhaus projects

#### **APPLICATION**

Wash and clean the substrate to remove dust, dirt and any loose particles. Remove any paint residues.

Add the content of the bag to a mixer with the necessary water, mixing it for 3-5 minutes until a homogeneous-looking workable creamy consistency is obtained.

Before application, thoroughly wet the masonry.

Apply the product in a 10 mm thick coat using a stainless-steel trowel. Once the first coat has sufficiently hardened, apply a second coat of 10 mm. Continue applying additional coats of 10 mm each until the desired thickness is achieved.

The application should take place at room and substrate temperature between +5 and +30 °C and with R.H. not exceeding 70%, in the absence of wind. The treated surfaces will be protected from rain and humidity until the surface drying of the applied product (3 - 10 days depending on weather conditions).