

MANTI CERAMIC MEDIUM-DENSITY

**Nanocomposite liquid insulator
for thermal insulation**



FEATURES

Packaging: 20 L

Coverage: 1 L / 1 m² / 1 mm

Thickness: 1 – 2 mm approx.

Thermal conductivity: $\lambda_d = 0.0019 \text{ W}/(\text{m}\cdot\text{K})$

Viscosity: 3500 – 4000 cP

Density: 700 kg/m³ approx.

Finish/Colour: White (may be coloured)

Water vapour permeability: $\delta = 4.4 \text{ kg}/(\text{m}\cdot\text{s}\cdot\text{Pa})$

Reaction to fire: Euro Class A2

Solar Reflectance (SR) (ASTM C1549): 88.4%

Thermal emissivity (IE) (EN 15976): 85.5%

Solar reflectance index (SRI) (ASTM E1980): 111.5%

Vapour diffusion resistance (equivalence): $\mu=6.40$

Specific heat: 1.290 J/(kg·K)

Composition	Patented product containing ceramic nanomolecules for thermal insulation, breathable and waterproof, with a high resistance to moisture and condensation.
General information	An innovative solution for thermal insulation, the result of nanotechnology research. With the insulating power of the patented nanomolecule known for its low thermal conductivity, it creates perfect insulation with an extremely thin protective barrier, making the walls particularly resistant to corrosion and the formation of new mould and fungus.
Use	Designed for effective thermal insulation of vertical walls inside and outside (e.g. perimeter walls, ceilings, floors, balconies, concrete structures, etc.) in both civil buildings and commercial structures, wherever thermal insulation with a minimum thickness is required. Also ideal for thermal bridges and for friezes and reliefs on period buildings. May also be used as a finish over the high-density version instead of plaster.
Application	The ideal application method is with a Graco airless piston sprayer with medium/low pressure. Alternatively, a short-pile roller (for application on moderate surfaces) and/or brush may be used. Avoid application at temperatures below + 5°C. If applied outside, protect from rain for the first 48 hours.
Special remarks	Adhesion test: no loss of adhesion, no visible signs of separation, swelling or peeling. Complete polymerization occurs within 30 days.

