



# TERMO MALTA

Lightened mortar with spheres of expanded glass and perlite with high mechanical performance for the elevation of thermal insulating masonry made with blocks of alveolar concrete or expanded clay.



## TECHNICAL FEATURES

**TERMO MALTA** is a pre-mixed and ready-to-use masonry mortar with guaranteed performance, which can be used indoors and outdoors for the construction of walls with thermal characteristics. **TERMO MALTA** it is formulated with expanded glass microspheres, hydrated lime, Portland cement, selected aggregates partly from recycling, and special additives that improve its workability and enhance its technical characteristics. Characterized by excellent insulating power and very low thermal dispersion, it guarantees compliance with the thermal parameters of the masonry. It avoids thermal bridges, which would instead form with the use of common masonry mortars, ensuring greater continuity of thermal insulation. According to the EN 998-2 standard, **TERMO MALTA** is a lightweight general purpose masonry mortar for outdoor use in elements subject to thermal insulation requirements, class M10.

## FIELD OF APPLICATION

**TERMO MALTA** it is used as a bedding mortar for the construction of thermal masonry, indoors and outdoors, with thermal bricks in honeycomb concrete or expanded clay. Also suitable for laying common bricks, concrete blocks and natural stone. **TERMO MALTA** it can also be used to perform small thermal smoothings, but for large surfaces or high thicknesses it is necessary to use **CLIMA THERM**.

## PREPARATION OF THE MASONRY ELEMENTS

The masonry elements and the support bases must be clean; dust, lime or gypsum residues, dirt and release agents must be properly treated and eliminated. Particularly absorbent masonry elements or exposed to direct sunlight must be wetted with water one hour before use so that they have time to cool down and dry on the surface. Very humid substrates can slow down the setting.

## MIX PREPARATION

**TERMO MALTA** it is prepared by adding only clean water. Mix each 25 kg bag of product with  $6,7 \div 7,3$  liters of water using a continuous horizontal mixer or low speed mixer fitted with a whisk, until a homogeneous and plastic mixture is obtained. If mixed with a cement mixer, do not exceed 3 minutes of mixing. The mortar obtained can be used for about 2 hours.

## APPLICATION

It is recommended to apply the mortar with a plastic consistency, using a trowel; to obtain the necessary structural rigidity and stability, the brick bedding must be carried out by carefully filling both the horizontal and vertical joints with material. In this way thermal bridges and water or humidity infiltrations and the consequent efflorescence phenomena due to the presence of salts in the masonry elements are avoided.

## CLEANING

The tools used for laying must be washed with water before the mortar hardens; subsequently, cleaning can only take place by mechanical removal.

## ITEM OF SPECIFICATIONS

Elevation of structures with thermal characteristics, indoors and outdoors, made up of special blocks in cellular concrete or expanded clay by using a lightweight masonry mortar, with guaranteed performance, based on expanded glass microspheres, lime, Portland cement and aggregates partly from recycling, classified **Lightweight masonry mortar, for external use in elements subject to thermal insulation requirements, class M10**, according to **UNI EN 998-2**, type **TERMO MALTA** by **HERAKEM SRL**.



## WARNINGS

- Always comply with the provisions dictated by the regulations in force.
- **TERMO MALTA** it is mixed with clean water without adding other products.
- Do not use for cellular concrete blocks or gypsum or brick-based blocks.
- Do not apply on frozen substrates or bricks or in any case at ambient temperatures below +5 °C or above + 35 °C.
- Protect the walls for at least 48 hours from rain, washout or frost and for at least 7 days from rapid drying due to wind or beating sun.
- Do not change the percentage of mixing water during processing, and do not re-mix the product already set.

## TECHNICAL DATA \*(at +22±1°C and 55±5% R.H.)

Appearance	gray powder	Workability time	about 2 hours*
Aggregate size	< 4 mm	Water absorption by capillarity	W1
Reaction to fire	Class A1	Thermal conductivity	0,36 W/mK (tabulated value)
Mixing water	about 28%	Permeability to water vapor	μ 5/20 (tabulated value)
Mixing water for a 25 kg bag	about 7 liters	Chloride content	≤ 0,1 (normally absent)
Compressive strength	≥10 Mpa (M10)	Moisture resistance	excellent
Lower equal flexural strength	≥ 4 N/mm <sup>2</sup>	Resistance to aging	excellent
Apparent specific weight of powder	approx. 900 kg/m <sup>3</sup>	Density of hardened mortar	approx. 1200 kg/ m <sup>3</sup>
Initial shear strength	0,15 N/mm <sup>2</sup> (tabulated value)	Storage	12 months in original dry packaging

<b>Consumption</b>	<b>approx. 10 kg/m<sup>2</sup> per cm of thickness for continuous joint</b>	<b>Packaging</b>	<b>20 kg bag</b>
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### PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.