

INSULATING MATERIALS



AVAILABLE IN **25 KG** bags on disposable pallets weighing 1575 kg (63 bags) protected by an elastic hood

DESCRIPTION

Malta e Canapa is a premixed powder mortar with 0-6mm fine hemp shives designed for the construction of walls in **Biomattone®** hemp and lime, with excellent workability, consistent colour uniformity and limited possibility of salt efflorescence thanks to its water-repellent properties. The product can be used for raising and sealing external and internal walls built with **Biomattone®** hemp and lime bricks. The mortar is classified as Class M5 according to EN 998-2 for its compressive strength.

MIXING AND INSTALLATION

The **Biomattone®** to be laid must be clean and free of dust, soil, traces of oil or grease. In hot weather, the blocks must be slightly moistened with clean water before laying. **Malta e Canapa** is mixed with water in traditional construction site concrete mixers or continuous mixing machines, mixing approximately 5.0-6.0 litres of water per 25 kg bag of powder. It is advisable to maintain a constant water ratio until the end of the work. The mixture obtained in this way can be used within 2 hours. Stir again with a trowel before use without adding further water. To lay **Biomattone®**, after positioning the alignments and plumb lines, use a trowel to apply a consistent amount of product depending on the size of the product used. Remove any excess mortar and, once the plastic phase is complete, go over the joints with a special iron, making sure to keep the masonry clean during elevation.

COMPLIANCE

Factory-produced masonry mortar with guaranteed performance for general purposes (G) for use in walls, columns and partitions subject to structural requirements - EN 998-2:2016

COMPOSITION

Malta e Canapa is a powder formulation composed of special hydraulic and air-entraining binders, limestone aggregates, fine hemp shives (0-6 mm), inorganic pigments, mass water repellents and specific additives to improve the adhesion and workability of the product.

PRODUCT DATA

- Appearance: powder
- Colour: grey
- Powder density (EN 1015-10): ~ 1500 kg/m³
- Maximum aggregate diameter: ≤ 2.0 mm

TECHNICAL DATA

- Density of fresh mortar (EN 1015-6): ~ 1800 kg/m³
- Density of hardened mortar (EN 1015-10): ~ 1550 kg/m³
- Adhesion (EN 1015-12): ≥ 0.15 N/mm² (FP) B
- Air content of the mixture (EN 1015-7): 13%
- Consistency of fresh mortar (EN 1015-3): 150 mm
- Chloride content (EN 1015-17): < 0.011%
- Compressive strength (EN 1015-11): ≥ 5.0 N/mm² Class M5
- Flexural strength (EN 1015-11): ≥ 2 N/mm²
- Capillary water absorption (EN 1015-18): ≤ 0.4 kg/m² x min^{0.5}

YIELD/CONSUMPTION

Dimension Biomattone®	Joint thickness	Approximate consumption
50x20x8	up to 15 mm	12,5 kg/m ²
50x20x12	up to 15 mm	12,5 kg/m ²
50x20x25	up to 15 mm	25 kg/m ²
50x20x30	up to 15 mm	25 kg/m ²
40x20x36	up to 15 mm	25 kg/m ²
50x20x40	up to 15 mm	25 kg/m ²
40x20x50	up to 15 mm	25 kg/m ²

CLEANING OF EQUIPMENT

Clean all tools and equipment with water immediately after use. Hardened material can only be removed by mechanical means.

EXPIRY/STORAGE

12 months from the date of manufacture.
Store the product in its original packaging, intact and protected from moisture and frost.

APPLICATION DATA

- Mixing water: 20-24%
- Mixing ratio: 1 bag + 5-6 lt. of water
- Minimum application temperature: +5°C
- Maximum application temperature: + 30°C
- Workability time: ≤ 120 minutes

- Water vapour permeability coefficient (EN 1015-19): μ 15/35
- Thermal conductivity (EN 1745, A12): 0.61 W/mK
(average value from prospectus; P=50%)
- Specific heat capacity (EN 1745, A12): 1,0 kJ/kgk
- Reaction to fire (EN 13501-1): Class A1
(assessment based on provisions)
- Durability (EN 998-1): valid at the intended place of use of the mortar
- Hazardous substances (EN 998-1): see SDS

WARNINGS

Avoid application at temperatures below +5°C, in strong wind, rain or direct sunlight. In high temperatures, it is advisable to wet the substrate with water before applying the mortar. Do not apply Biomattone® when frozen, during thawing or if there is a risk of frost in the 24 hours following installation. Apply mortar to a thickness of no less than 10 mm. Protect elevated surfaces from rapid drying due to strong winds and direct sunlight. Protect elevated surfaces from rain and frost for the first two days after installation. Product for professional use.

ENVIRONMENT, HEALTH AND SAFETY (REACH)

For further information and advice on the safe handling, storage and disposal of the material, users of the product should consult the latest version of the Safety Data Sheet (SDS) available, which contains information on the physical, ecological and toxicological characteristics of the products, together with other safety information. Product complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) and Annex XVII, entry 47 and subsequent amendments and additions.