



MALTAKEM

Masonry mortar. For bedding concrete and brick blocks or as a "bastard" plaster mortar, for general purposes.



TECHNICAL FEATURES

MALTAKEM is the typical pre-mixed and ready-to-use "bastard mortar". Can be used indoors and outdoors both as a masonry mortar and as a plaster mortar. **MALTAKEM** is composed of hydrated lime, Portland cement, selected sands and special additives, mixed together according to the formulation method of the **HERAKEM** laboratory, improving its workability and enhancing its technical characteristics.

FIELD OF APPLICATION

MALTAKEM should be used as a bedding mortar for the construction of walls, for interiors and exteriors, with thermal bricks, common bricks, concrete blocks, natural stone. Can also be used as a plaster for manual application.

PREPARATION OF THE MASONRY ELEMENTS

The masonry elements must be clean. Dust, dirt or 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 and dry on the surface. Very humid substrates can slow down the setting.

MIX PREPARATION

MALTAKEM is prepared by adding only clean water. Mix each 25 kg bag of product with 4.0 ÷ 5.0 liters of water using a continuous horizontal mixer or low-speed drill fitted with a whisk, until a creamy and homogeneous mixture is obtained. Do not use a cement mixer or muller. The adhesive mortar obtained can be used for about 2 hours.

APPLICATION

It is recommended to work the mortar with a plastic consistency; to obtain the necessary structural rigidity and stability, the brick bedding must be carried out by completely filling both the horizontal and vertical joints with material. In this way, water or humidity infiltrations and consequent efflorescence phenomena due to the presence of salts in the masonry elements are also avoided. Exposed joints must be carried out with care by compacting the joints with the mortar still fresh, smoothing them with a suitably shaped iron until maximum compactness is achieved. Do not return material to the joints after hardening.

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

The lodging of the masonry for elevated elements of internal and external walls in bricks, concrete blocks, etc. it will be performed with premixed dry mortar, based on lime and Portland cement, classified **GP-CSIV-WO**, according to **UNI EN 998-2**, type **MALTAKEM** by **HERAKEM SRL**.

The plastering will be done manually with premixed "bastard" mortar based on lime and cement, CE marked as "Mortar for general purpose indoor and outdoor plasters classified **GP-CSIV-WO**, according to the **UNI EN 998-1** standard, type **MALTAKEM** by **HERAKEM SRL**.



WARNINGS

- **MALTAKEM** is mixed with clean water without adding other products.
- Do not apply on frozen substrates or bricks or in any case at ambient temperatures below +5 ° C or above + 35 ° C.
- Do not use for cellular concrete blocks or gypsum or brick-based blocks.
- Protect the walls for at least 24 ÷ 48 hours from rain or washout and for at least 7 days from frost or rapid drying due to wind or beating sun.
- It is advisable not to change the mixing water during processing, not to re-mix the product already set.

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

Appearance	Gray powder texture	Initial shear strength	0,3 N/mm ² (tabulated value)
Aggregate dimensions	0,0 ÷ 1,5 mm	Water absorption	W0
Apparent specific weight of powder	approx. 1700 kg/m ³	Thermal conductivity	0,67-0,76 W/m·K (tabulated value)
Workability time	about 2 hours*	Permeability to water vapor	15 µ
Permitted application temperature	from +5°C to +35 °C	Moisture resistance	excellent
Chloride content	≤ 0,1 (normally absent)	Resistance to aging	excellent
Density of hardened mortar	approx. 1800 kg/ m ³	Yield	approx. 1900 kg/m ³
Reaction to fire	class A1	Storage	12 months in original dry packaging
Compressive strength	≥5N/mm ²	Packaging	25 Kg bag

TYPE OF MASONRY	MORTAR THICKNESS	CONSUMPTION
Anti-seismic block 30 cm	1,0 cm	approx. 40 kg/m ² of masonry
Solid brick	1,0 cm	approx. 60 kg/m ² of masonry
Drilled by 10 cm	1,0 cm	approx. 80 kg/m ² of masonry

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.