

# MALTA GREZZA DA MURATURA (COARSE MASONRY MORTAR)

## DESCRIPTION

Natural masonry mortar with lime putty base, free of cement, for indoors and outdoors.

## COMPOSITION

COARSE MASONRY MORTAR is a natural product with a lime putty base seasoned for at least 8 months, river silica sand and as much clean water as necessary to improve working, completely free of cement, chemical or organic additives. During the work phase, metakaolin must be added, in proportion to approximately 4% of the weight, or rather selected clay fired at temperatures under 900°C, giving the products its hydraulic properties.

## TECHNICAL DATA

Specific weight of the fresh product (EN 1015-6)	2.000-2.100 kg/m <sup>3</sup>
Particle size	≤ 4 mm
Air content in the fresh product (EN 1015-7)	2-3%
Minimum thickness	4 mm
Specific weight of the hardened product at 28 days (EN 1015-10)	1.750-1.850 kg/m <sup>3</sup>
Flexural strength at 28 days (EN 1015-11)	1,5-2,5 N/mm <sup>2</sup>
Compression strength at 28 days (EN 1015-11)	5-8 N/mm <sup>2</sup> (M 5)
Dynamic elastic modulus at 28 days	6.000-8.000 N/mm <sup>2</sup>
Adhesion to support (EN 1015-12)	0,7 N/mm <sup>2</sup>
Coefficient of resistance to vapour passage (μ) (EN 1015-19)	≤ 10 (value measured)
Water capillary absorption (EN 1015-18)	0,03 kg/(m <sup>2</sup> ·min <sup>0,5</sup> ) (W2)
Compatibility with the support (EN 1015-21)	0,55 N/mm <sup>2</sup>
Thermal conductivity (λ <sub>10,dry</sub> ) (EN 1745)	0,82 W/m·k
Soluble chlorides (maximum value permitted 0.1%) (EN 1015-17)	missing
Reaction to fire (EN 13501-1)	A1
Complies with Standard UNI EN 998-2	M 5

## APPLICATION FIELDS

COARSE MASONRY MORTAR is used to build walls in blocks, bricks, thermobricks and stone, both for new buildings and restorations, in the recovery and preservation of historic buildings, even on works using the patching technique.

For renovations, always accurately evaluate the causes of existing deterioration before carrying out the work to avoid the same problem arising again; in particular, you should eliminate or at least reduce rising damp phenomena, the presence of salts or phenomena that could occur on exterior facades due to poor protection from atmospheric agents.

Thanks to its natural characteristics, this product is attentive to health and safeguarding the individual and the environment.

## PREPARATION OF THE SUPPORT

Always check compatibility of the elements used to build the wall with COARSE MASONRY MORTAR.

In the event of particularly high environmental temperatures, assess absorption of the elements used to build the wall and, if necessary, wet them before use.

## APPLICATION METHOD

COARSE MASONRY MORTAR is applied by hand with a trowel; the product must however be previously mixed in a cement mixer or with a mechanical agitator.

## RECOMMENDATIONS

When using the product, the temperature of the surrounding environment and the support must not go below 5°C and over 30°C.

Do not apply on frozen supports, defrosting supports or supports at risk of frost in the next 24 hours.

## SUPPLY

### COARSE MASONRY MORTAR

- Loose in 1,000 kg (approx.) metal containers, with a protective sheath (limited territorial distribution).
- 30 kg (approx.) bags
- 1,200 kg (approx.) big bags (40 bags x 30 kg approx.)

### Metakaolin

- 15 kg (approx.) bags
- Customised supply based on the capacity of the cement mixer used.

## STORAGE

Keep far from frost and excess heat; the temperatures should not go below 5°C and over 30°C.

### COARSE MASONRY MORTAR

- It lasts approximately 3 months if protected from the sun and frost.

### Metakaolin

- Protected from humidity, it has no expiry.

The data outlined refer to tests carried out by the Morandi Bortot srl laboratory; in practical applications on building sites, these can change considerably based on the working conditions. The user must however check the product is suitable for its planned use, assuming all responsibility for such use. Our products undergo continuous quality controls on the raw materials and the end product to guarantee constant quality. Our technicians and consultants are available for any information or clarifications you may need, on how to use and work our products. Morandi Bortot srl reserves the right to make changes without prior notification.

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