

## TECHNICAL DATA SHEET

### MORTAR M-5

#### DESCRIPTION

Mortar M-5 is a pre-prepared cement-based mortar, designed for the construction of masonry with bricks, concrete blocks, sandstone, etc. The product is ready for use and only requires the addition of water on site, as specified in the technical data sheet.

In practice, this means that the user does not need to make special mixtures of cement, sand and additives on site. The mixture is balanced by the company to ensure high workability, adhesion and durability.

Classified according to standard EN 998-2 class M5. Ready for use for exterior and interior environments. Easy to apply both by machine and by hand.



#### CHARACTERISTICS

1. Simplifies and speeds up application, because it is a ready-to-mix product with just water.
2. Provides high initial and final adhesive strength of the masonry.
3. It has very good workability, so it is easily spread and leveled with a trowel during wall construction.
4. It is suitable for indoor and outdoor uses.
5. Thanks to the special granulometry of the particles, the mortar has controlled fluidity: it spreads easily enough, does not fall and does not collapse under the weight of bricks, blocks or other masonry elements.

#### FIELD OF APPLICATION

For building walls for interior and exterior environments. For cement blocks, natural stones and bricks of various types.

Typical use is the placement and connection of masonry units, where the mortar serves as a bonding layer between bricks or blocks. It can be used in interiors and on facades or walls exposed to the outside, respecting the application conditions and technical requirements of the project.

#### PRODUCT PREPARATION

Make sure the bricks are clean and dust-free. Mix with a mechanical mixer or by hand 5-5.5 liters of water with a 25 kg bag of Mortar M-5 until a homogeneous and lump-free mass is achieved. The product is suitable for application by hand and machine.

#### APPLICATION

Once you have achieved the correct direction of the bricks, apply the product by machine or by hand up to a thickness of 2 cm. Optimal working temperatures are from 5°C to 35°C. For subsequent coatings it is important that the base has reached maturity in drying.

The recommended practical order is: placing the measured amount of water in the mixing container, gradually adding the powder, mixing mechanically or manually until a uniform mass is achieved, and applying the mortar with a trowel to the masonry surface.

The mortar is applied with a trowel or machine. During application, it must be ensured that the bonding layer is continuous and sufficiently covers the contact areas between the masonry elements, in accordance with construction practice and project specifications.

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#### ATTENTION!

Keep the wall as clean as possible during application. In hot weather it is advisable to wet the bricks and blocks shortly before laying. Avoid application on windy days on frozen or thawing substrates, with a risk of freezing in the next 24 hours and at temperatures below 5°C.

#### STORAGE

The product is stored for 12 months from the date of production, if kept in the original, unopened packaging, in places protected from moisture and frost.

In practice, bags should be stored on pallets or on dry surfaces, not in direct contact with wet floors, and protected from rain, condensation, and very low temperatures.

Consumption is The indicative consumption is 20 kg/m<sup>2</sup> of masonry for bricks with dimensions 6 x 9 x 12 cm. This value is indicative. The actual consumption may vary depending on the dimensions of the bricks or blocks, the thickness of the joint, the flatness of the elements, the method of application and losses during work on the site

#### TË DHËNAT TEKNIKE

|                              |                                        |
|------------------------------|----------------------------------------|
| Appearance:                  | Dust                                   |
| Packaging:                   | 25 kg paper bag on 1350 kg pallet      |
| Color:                       | Gray                                   |
| Granulation:                 | 1.2 mm                                 |
| Application thickness:       | 5-20 mm                                |
| Storage:                     | Store in dry places on wooden pallets. |
| Storage time:                | 12 months from date of manufacture     |
| Water for mixing:            | 5 liters/bag                           |
| Application temperatures:    | +5°C to +35°C                          |
| Dry volumetric mass:         | 1.7 g/cm <sup>3</sup>                  |
| Consistency of fresh mortar: | 170mm                                  |
| Compression resistance:      | 5 N/mm <sup>2</sup>                    |
| Thermal conductivity:        | 0.67 W/mK                              |
| Water absorption:            | 0.3 kg/m <sup>2</sup> min0,5           |