

mortars

MG 45

Masonry mortar, M10 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, eminently hydraulic lime and special additives.

Supply and Storage

MG 45, M10 class, is supplied in bulk, in a 22 m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.



Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: Prepare the dough by adding about 15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG 45, M10 class, is a masonry mortar that is used on all types of exterior and interior walls. Due to its high mechanical strength, it is suitable for load-bearing walls. Also available in waterproof version MGK 45, M10 class, upon request.

Specifications

The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG 45, M10 class, from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|---|
| Specific weight | 1.600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | 15% approx. |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3,8 N/mm ² |
| Mechanical resistance to compression at 28 days (M10) | > 12 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 1,04 W/mK (tabulated value) |

Disclaimers

Do not mix MG 45, M10 class, with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG 45, M10 class, when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

v. 02/2017

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.