

mortars

# MGK 18

**Water-repellent mortar for masonry with exposed concrete, M5 class**



## Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, water-repelling agent and special additives.

## Supply and Storage

MGK 18 is supplied in bulk, in a 22m<sup>3</sup> 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. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: Prepare the dough by adding about 19 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. Once the plastic phase is finished,

proceed to fix the joints with the appropriate iron.

## Fields of use

MGK 18 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints.

## Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK18 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip and waterproofing agent to increase water repellence.

## Technical data according to the UNI EN 998-2 Standard

|  |   |
|--|---|
| Specific weight                                      | 1.500 kg/m <sup>3</sup> determined in free fall |
| Maximum diameter                                     | 1,25 mm   |
| Pot life   | 2 h   |
| Water in the mix                                     | approx. 19%                                     |
| Hygrometric withdrawal                               | 0,5 mm/m  |
| Min. application thickness                           | 0,5 + 2 cm                                      |
| Chloride content                                     | < 0,01%   |
| Resistance to initial cut                            | 0,15 N/mm <sup>2</sup> (tabulated value)        |
| Mechanical resistance to flexion at 28 days          | > 2,5 N/mm <sup>2</sup>                         |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm <sup>2</sup>                           |
| Fire resistance                                      | A1 class  |
| Water vapor permeability →                           | 15/35 (tabulated value)                         |
| Thermal conductivity                                 | 0.75 W/mK (tabulated value)                     |

## Disclaimers

Do not mix MGK18 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK18 when temperatures are below +5°C or above +30°C. Wet surface before application.

I dati riportati si riferiscono alle prove di Controllo Qualità in condizioni ambientali normalizzate. Applicazioni pratiche di cantiere a seconda delle condizioni di esercizio possono rilevare dati sensibilmente modificati, pertanto le informazioni presenti nella Scheda hanno valore puramente indicativo in quanto l'utilizzatore deve sempre verificarne l'idoneità nell'impiego del prodotto assumendosi la responsabilità derivante dall'uso. Fornaci Calce Grigolin S.p.A. si riserva di apportare e modificare tecniche di qualsiasi genere senza alcun preavviso.

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