



**BRIGLIADORI**  
**FORNACE CALCE**



EDILIZIA, RESTAURO & COSTRUZIONI

## MASONRY MORTAR BM5

CE 12  
EN 998-1

**Product code 83/5**

**Prescribed composition mortar plaster for general purposes (G) for internal and external use**

### DESCRIPTION AND USES

**MASONRY MORTAR BM5 (class M5)** is a ready to use mortar based on **Natural Hydraulic Lime NHL5** of our production (certified according to EN 459-1), micronised pozzolana that gives it high mechanical strength, and carbonate and siliceous sands.

It is suitable for bedding and tuff brick and stone masonry and mixed masonry indoors and outdoors, restoration of sub-foundations, masonry against the ground, sewing of external masonry exposed to runoff and weathering, reconstruction in historical restoration, etc. ....

### TECHNICAL PROPERTIES

|                                        |                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Colour                                 | : light brown                                                                                                                    |
| Grain size range                       | : 0-3 mm                                                                                                                         |
| Bulk density                           | : 1850 kg/m <sup>3</sup>                                                                                                         |
| Compressive strength at 28 days        | : > 5 N/mm <sup>2</sup> (M5 Class)                                                                                               |
| Compressive strength at 1 year         | : > 10 N/mm <sup>2</sup>                                                                                                         |
| Flexural strength at 28 days           | : > 0,4 N/mm <sup>2</sup>                                                                                                        |
| Fire resistance (class)                | : A1                                                                                                                             |
| Capillary absorption                   | : > 0,3 kg/m <sup>2</sup> ·min <sup>0,5</sup>                                                                                    |
| Water vapour diffusion coefficient (μ) | : >15<35                                                                                                                         |
| Thermal conductivity (λ)               | : 0,95 W/m·K                                                                                                                     |
| Mixing water                           | : approx. 18%                                                                                                                    |
| Yield                                  | : 1600 kg/m <sup>3</sup>                                                                                                         |
| Concrete mixer time                    | : 5 minutes                                                                                                                      |
| pH                                     | : > 12                                                                                                                           |
| Start drying time                      | : < 60 minutes                                                                                                                   |
| End drying time                        | : 4 hours                                                                                                                        |
| Working time                           | : 30 minutes                                                                                                                     |
| Bulk components ratio                  | : Natural Hydraulic Lime NHL5      27%<br>Aggregates                              63%<br>Micronized Pozzalana                10% |
| Packaging                              | : 25 kg bag                                                                                                                      |

### APPLICATION

The masonry, blocks or bricks to be bedded must be clean, free of dirt, oil, grease or anything else that may impair adhesion, and adequately moistened before the mortar is laid.

Mix the mortar in a concrete mixer for approx. 5 minutes with 4, 5 - 5 litres of clean water per 25 kg bag until a homogeneous, lump-free mixture is obtained.

The mortar is quick to dry, so once mixed, it should be used within 30 minutes.

Do not apply mortar layers over 20 mm or under 5 mm thick.

Do not apply on frozen or defrosting substrates. It is important not to apply the mortar in strong winds and high temperatures. In such cases, take the necessary precautions: protect with canvas and moisten the substrates even in the days following application. The product must be applied when the ambient is above +5°C and below +35°C.

### CONDITIONS FOR A SAFE STORAGE

Keep covered and dry. Protect against moisture. Dispose of according to local regulations.

Storage: 12 months in unopened original packaging in a covered and dry place.

Product complies with Annex II of REACH - Regulation 2015/830.

Refer to Safety Data Sheet (SDS) for information on possible hazards. Product for professional use.

The use of the product must be based on the applicator's own research and evaluation.

Date review September 2024