

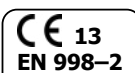


BRIGLIADORI
FORNACE CALCE



EDILIZIA, RESTAURO & COSTRUZIONI

MICRO-INJECTION MORTAR BM 10 FOR THE CONSOLIDATION OF HISTORICAL MASONRY



Product code 10

Masonry mortar with fixed composition for general purposes (GP)

DESCRIPTION AND USES

MICRO-INJECTION MORTAR BM 10 is a premixed mortar with a pozzolanic action, suitable for injection grouting of masonry in historic buildings, for consolidating old traditional or sack walls, vaults, arches affected by cracks, voids, missing parts of old bedding mortars, etc.

The main constituent is **Natural Hydraulic Lime NHL5** (of our production certified according to standard EN 459-1) obtained by burning marly limestone in vertical kilns in layers with a slow process at temperatures below 1000°C with the addition of micronised pozzolan. The high fineness allows a high degree of filling of the voids inside the masonry.

Technical properties

Colour	: light brown	
Mixing water	: about 40%	
Grain size fineness	: 80% < 40 micron	
Chlorides content	: < 0,02%	
Working time	: approx. 60 minutes	
Mixture fluidity	: < 30 seconds at the beginning	
	: < 20 secondi until 60 min	
Sulphate reaction (Anstett assay)	: high	
Bulk density	: 1,650 kg/dm ³	
Hardened bulk density	: 1,500 kg/dm ³	
pH	: > 12	
Grain size range – binder	: < 100 µm	
Fire reaction (class)	: A1	
Compressive strength at 28 days	: > 10 N/mm ² (class M10)	
Compressive strength at 6 months	: > 15 N/mm ²	
Adhesion	: ≥ 0,15 N/mm ²	
Thermal conductivity (λ) - table value	: 0,55 W/m·K	
Capillary absorption	: < 0,9 kg/m ² ·min ^{0,5}	
Yield	: 1,200 kg/dm ³	
Water vapour diffusion coefficient (μ)	: >5<20	
Bulk components ratio	: Natural Hydraulic Lime NHL5	70%
	Pozzolana	30%
Packaging	: 25 kg bag	

PREPARATION AND APPLICATION

Grout and seal any fissures and cavities in the surface of the masonry to prevent the **MICRO-INJECTION MORTAR BM 10** escaping. Make holes 10-20 mm in diameter with a drill to a depth of 2/3 of the masonry.

For masonry more than 50 cm thick, make holes on both sides.. It will be the responsibility of the project designer, depending on the type of work, to give the necessary indications to identify the most suitable perforation grid.

If possible, wash the masonry the day before application using the same holes created for the injections and make sure that there is no water retention at the time of application.

Mix the mortar using a drill mixer at low speed with clean water at a rate of 10-11 l per 25 kg bag depending on the required fluidity. Inject the grout as quickly as possible within max. 30 min. (in hot periods the time is shortened) at a pressure of approx. 1 atm starting from the bottom until the grout comes out of the top hole.

Do not add other substances such as cement and aggregates, but only water in the indicated quantity. Do not apply on frozen or thawing substrates or with risk of frost in the following 24 hours.

Avoid application at temperatures below +5°C and above +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