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

CE 13
EN 998–2

Product code 10

Masonry mortar with fixed composition for general purposes (GP)

DESCRIPTION AND USES

MICRO-INJECTION MORTAR BM 10 is a masonry mortar with fixed composition for general purposes (GP) ideal for injection mortar on historical buildings, consolidation of traditional, old or core masonry, vaults, cracking archs, empty parts of the old construction mortars….
The main component is **Natural Hydraulic Lime NHL 5** (our production according the Regulation EN 459-1) obtained by the calcination of marly limestones very rich in silica and alumina in vertical furnaces in layers with a slow process and with temperatures below 1000°C. Its thickness allows an elevated level of injection of empty parts of the wall.

Technical properties		
Colour	: light brown	
Mixing water	: about 40%	
Thickness	: 80% < 40 micron	
Chlorides content	: < 0,02%	
Application temperature	: + 5°C – + 35°C	
Working time of the fresh mortar	: ABOUT 60 MINUTES	
Mixture fluidity	: < 30 seconds at the beginning	
	: < 20 secondi until 60 min	
Sulphates reaction (Anstett paper)	: high	
Mixed density	: 1,650 kg/dm^3	
Hardened density	: 1,500 kg/dm^3	
pH	: > 12	
Aggregate thickness – binder	: < 100 µm	
Fire reaction	: class A1	
Compression resistance at 28 days	: > 10 N/mm^2 Class M10	
Compression resistance at 6 months	: > 15 N/mm^2	
Adherence	: ≥ 0,15 N/mm^2	
Thermal conductivity (table value)	: λ=0,55 W/m·K	
Water absorption	: < 0,9 kg/m^2·min^{0,5}	
Consumption	: 1,200 kg/dm^3	
Water vapor diffusion coefficient	: >5<20	
Component ratio in density	: -natural hydraulic lime NHL5	60%
	-micronized mortar	20%
	-aggregates	20%
Packaging	: 25 kg bag	

PREPARATION AND APPLICATION

Fill and seal the cracks and cavities of the masonry surface to prevent the the mortar leak. Realize with a drill some holes of 10-20 mm diameter and depth of at least ⅔ of the masonry.
For masonry exceeding 50 cm thickness make holes from both sides. It will be the planner, depending on the type of intervention, to give the necessary indications for identifying the most suitable mesh perforation.
If possible wash the masonry the day before the application using the same holes created for the injections and ensure that at the time of the application there is no backwater.
Mix the mortar by mixer or drill with cleaned water, 10-11 liters per 25 kg bag depending on the required fluidity. Inject as fast as possible the mortar within max 30 min. (during hot season working time becomes shorter) at a pressure of about 1 atm starting from the bottom up to the mortar leak from the surface. Do not add other products such as cement or aggregates but only water as indicated. Application temperature + 5 ° C + 35 ° C.
Do not apply to frozen, defrosting or at risk of frost within 24 hours.

CONDITIONS FOR A SAFE STORAGE

Store the product in a dry place and indoors. Avoid humidity. Waste treatment according to local law.
Storage: up to 12 months in its original and closed packaging in a dry place and indoors.
Product according to Annex II of REACH - Regulation 2015/830.
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. Product for professional use. The product use must be based on researches and evaluation of the worker.

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