



BRIGLIADORI
FORNACE CALCE



EDILIZIA, RESTAURO & COSTRUZIONI

MASONRY MORTAR BM83

CE 12
EN 998-1

Product code 83

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

DESCRIPTION AND USES

MASONRY MORTAR BM83 (class M10) is a ready to use mortar made of **Natural Hydraulic Lime NHL 5** of our production (certified according to EN 459-1), micronized pozzolana that gives it high mechanical resistance since the first months, carbonated and siliceous sands.

It is specially formulated for joints and patching of brick, tuff, stone and internal and external mix, foundation restoration, retaining wall, external masonry mend exposed to washout and weathering, historical renovation reconstruction, etc...

TECHNICAL PROPERTIES

Colour	: light brown
Aggregates size	: < 3,5 mm
Hardened mortar density	: 1850 kg/m ³
Compression resistance at 28 days	: M10 class
Compression resistance at 6 months	: > 15 N/mm ²
Flexing resistance at 28 days	: > 0,4 N/mm ²
Fire resistance (class)	: A1
Water absorption for capillarity	: > 0,3 kg/m ² ·min ^{0,5}
Water vapour diffusion coefficient (μ)	: >15<35
Thermal conductivity	: λ = 0,95 W/m·K
Durability	: NPD
Mixing water	: about 18%
Consumption	: 1600 kg/m ³
Concrete mixer time	: 5 minutes
pH	: > 12
Start drying time	: < 60 minutes
End drying time	: 4 hours
Pot life	: 30 minutes
Bulk components ratio	: natural hydraulic lime NHL5 30% Aggregates 55% micronized pozzolana 15%
Packaging	: 25 kg bag

APPLICATION

The walls, blocks or bricks to joint must be clean and free of dirt, oil, grease or anything else that could affect the adherence and carefully moistened before mortar application.

Mix the mortar in a concrete mixer for about 5 minutes with about 4.5 l of clean water per bag of 25 kg of product.

The mortar has a short pot life so once mixed must be used within 30 minutes.

Do not make thickness more than 20 mm or less than 5 mm.

Do not apply to frozen or defrosting surfaces. Do not apply the mortar with strong wind and high temperatures. In these cases take the necessary precautions as sheets protection and moisten the surfaces also the days after the application.

Working temperature +5°C +30°C.

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.

Date review January 2021