

ALVENARIA M10

MASONRY MORTAR WITH IMPROVED RESISTANCE

1. DESCRIPTION

ALVENARIA M10 is a dry mortar, formulated from hydraulic binders, limestone and siliceous aggregates and additions, intended for the execution of masonry construction elements. It is a product specially designed for manual application.

2. FIELD OF USE

ALVENARIA M10 is a mortar especially designed for carrying out indoor or outdoor masonry wall panels of ceramic brick, cement block and thermal block, with coatings. It may also be used on resistant stone masonry elements, but in such cases, prior consultation with our Technical Services is advisable.

It replaces traditional application mortars with the following advantages:

- Ensuring the use of a premixed, constant formulation mortar;
- In silo systems, high productivity of the application and application management at the construction site.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Granulometry	< 3,5 mm	-
Water soluble chlorides	≤ 0,1 %	-
Paste product	Value	Standard
Mixing water	11,5 ± 1,0 %	-
Hardened product	Value	Standard
Compressive strength	≥ 10,0 N/mm ²	EN 1015-11
Density	1950 ± 150 kg/m ³	EN 1015-10
Permeability to water vapour	15 to 35 μ	EN 1015-19

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Reaction to fire	Class A1	EN 988-2
Thermal conductivity	1,11 W/ (m.K) (P=50%)	NP EN 1745

4. APPLICATION

a) Preparation of mixture

ALVENARIA M10 should be mixed in a projection equipment with pre-mixing of the product.

In machines without automatic water dosing, **ALVENARIA M10** should be mixed in the proportion of 3,0 to 3,5 litres of water per 30 kg bag.

In machines with automatic water dosing, the minimum flow should be used to enable good workability.

Use water free of impurities and do not add any products to the mortar.

b) Application

The application of **ALVENARIA M10** is carried out according to traditional techniques, not requiring any special procedure or care, besides the recommended good implementation practices.

c) Restrictions

Because it is a hydraulic mortar, **ALVENARIA M10** should not be applied at ambient and substrate temperatures below 5 °C and above 30 °C. Its curing time is 28 days.

d) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used;
- No mortar that has started its open time should be applied;
- Do not soften mortars by adding water after preparation.;
- Do not add any other products to the mortar. **ALVENARIA M10** should be applied as it is shown in its original packaging.

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e) Theoretical Consumptions

Consumption table in kg/m ² of brick /mm joints thickness			
Brick	Thickness of joints (mm)		
	10,0	15,0	20,0
7	16,3	24,5	32,7
11	25,7	38,5	51,3
15	35,0	52,5	70,0
22	51,3	77,0	102,7

5. PACKAGING AND VALIDITY

Packaging

30 kg paper bags in plasticized pallets of 54 bags.

Bulk for use in silo systems.

Validity

6 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and abundantly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

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EN 998-2

General purpose (GP) formulation mortar. Use for laying of interior masonries (with covering)

Declaration of performance DOP.08001

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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