



FINOMIX®
DRY MORTARS

Technical Data Sheet

Release 3: 12/07/2019

LK 10

masonry mortar

- Easy and quick application
- Increased mechanical strengths compared to traditional masonry mortars
- It doesn't collapse under the weight of the masonry elements
- Excellent workability



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masonry mortar

DESCRIPTION

Premixed, cement-based masonry mortar, modified with special enhancing additives, for building any size of bricks, cement blocks and other building materials. It exhibits high mechanical strengths, strong adhesion to structural elements and excellent workability, without "sagging" under the weight of structural materials. Classified as general purpose (GP) masonry mortar type M5-A1 according to European standard EN 998-2.

APPLICATIONS

Used for building of various types of building materials such as bricks, blocks, natural stone, etc. Can also be used for minor repair works. It is suitable for indoor and outdoor applications.

PROPERTIES / ADVANTAGES

- Easy and quick application.
- Increased mechanical strengths compared to traditional masonry mortars.
- It does not "sag" under the weight of building materials due to the special grain size distribution.
- Eliminates material loss and significantly reduces construction time and labor cost.

HARMONIZED STANDARDS / REGULATIONS

- EN 998-2: General purpose (GP) masonry mortar type M5, A1.
- Regulation (EC) No. 305/2011: CE marked product with Declaration of Performance (DoP): LK10/CPR-7-13/001/10-2013.

APPLICATION INSTRUCTIONS

- Before application surfaces must be clean, free of dust, grease, loose remnants, etc.
- During hot or windy weather, it is recommended to thoroughly dampen the structural elements before construction.

- The content of the bag is gradually added into the necessary clean water under continuous stirring until a homogenous mixture without lumps is formed, having the desired workability.
- Use a suitable mortar mixing and pumping machine, or a standard mortar mixer, or even a low speed power drill (approx. 300rpm).
- Apply the masonry mortar by hand using a trowel.
- Let the finished masonry to dry for at least 7 days before the application of renders.

ELASTIFICATION - REINFORCEMENT

The addition of 50-100g/kg of the enhancing polymer resin LATEX, in replacement of part of the mixing water, significantly enhances the properties of the final product. More specifically it enhances mechanical strengths, adhesion strength, water tightness, resistance to abrasion and frost and workability.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Do not mix the product with dirty or salty water.
- Do not use excess water as it will affect final adhesion strength and mechanical properties.
- Avoid long mixing time as it entrains too much air in the mortar, subsequently affecting the mechanical properties of the product.
- The mortar should be applied within approximately 2hrs since the mixing time. Time may be increased or reduced depending on the ambient conditions.
- After the mixture in the pot starts to stiffen do not add extra water. Dispose of the stiffened mix and prepare a new one.
- The mortar should not be applied during extreme climatic conditions such as below +5°C or above +35°C.

TECHNICAL CHARACTERISTICS	
PRODUCT CHARACTERISTICS	
Appearance	cementitious powder
Colour	grey
Bulk density	1.50 ±0.05 kg/lit
Maximum grain size	3.5 mm
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)	
Mixing ratio	18-19% b.w. (5,40-5,70 kg water / 30kg bag) (0,90-0,95 kg water / 5kg bag)
pH	> 11
Density (EN 1015-6)	1.75 ±0.05 kg/lit
Workable time	120 minutes (20°C)
Application temperature	minimum: +5°C / maximum: +35°C
Drying time	at least 7 days
Consumption	approximately 16-18 kg/m ² of masonry, for 6x9x19 cm bricks
PERFORMANCE CHARACTERISTICS	
Density of hardened mortar (EN 1015-10)	1.60 ±0.05 kg/lit
Compressive strength (EN 1015-11)	≥ 6.0 N/mm ² - Class M5
Flexural strength (EN 1015-11)	≥ 2.0 N/mm ²
Capillary water absorption (EN 1015-18)	≤ 0.35 kg/m ² ·min ^{0.5}
Water-vapour diffusion coefficient, μ (EN 1015-19)	15/35 (table value)
Thermal conductivity coefficient, λ _{10,dry} (EN 1745)	0.61 W/mK W/mK (table A12 for P=50%)
Reaction to fire (EN 13501-1)	Euroclass A1

Note: Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

PACKAGING - STORAGE

Available in:

- 5kg plastic bags
- 30kg paper bags.

Storage: 12 months from production date, if stored in

original, sealed packaging, protected from direct sunlight and moisture.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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