

MEGAFIX



Flexible, multipurpose mortar for repair and waterproofing of wall surfaces



■ PROPERTIES

Flexible, one component, fiber reinforced silicate mortar with polymers.

Distinguished for its exceptional adhesion and unique workability. It presents excellent surface hardness and zero shrinkage. Suitable for repairs as well as for full restorations of wall top coat surfaces.

It perfectly bonds to the substrate, thus securing water vapour permeability through its mass. It shields the wall surface and prevents the damaging effects of moisture penetration by creating a long lasting, water repellent coat. It maintains the water vapour permeability, while it prevents the absorption of water in the wall surface. In this way, structure elements maintain their thermal conductivity coefficient 'λ', thus helping to reduce the energy consumption for the heating of the interior spaces

of the walls to which it is applied on. It prevents CO₂ (carbon dioxide), sulfur or nitrogen gases to penetrate into building components.

As top coat plaster, it is classified GP: CSIII/Wc2, per EN 998-1.

As repair material, it is classified R1, per EN 1504-3.

■ APPLICATIONS

MEGAFIX's innovative composition makes it ideal for the restoration of the finish of wall surfaces, the prevention of moisture penetration from rain -or other sources- as well as to cover construction failures on building surfaces. Choose it as top coat on new walls made with marble based plaster or exposed concrete and existing, already cracked surfaces, to ensure complete protection from weathering or carbonation of the substrates.

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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Spot repair or restore around cracked joints between wall surfaces and frames made of aluminum, wood or PVC, etc. Moreover, it seals cracks from 0.5mm to 30mm wide and up to 40mm deep, not allowing them to reappear.

USE

1. Surface preparation

- Remove peeled or bubbled up wall paints with a putty knife and prime using AQUAFIX.
- Widen cracks with a putty knife, remove the dust, soak them and fill them with MEGAFIX.
- Remove any unsound sections from unpainted surfaces made of plaster or concrete, and prime with AQUAFIX.
- When substrates are sound, simply soak the surface with water.

2. Application

Empty 25kg of mortar into 4.25-4.75lt of cool water (0.95lt to 5kg), and mix using a cement mixer or a clean container using a low-rpm drill with a suitable attachment, until a lump free homogeneous mass is created. Allow for the mixture to mature for 5 minutes and stir periodically without adding any water. Apply MEGAFIX in 2 coats, up to 5mm per coat, using a wide, flat metal trowel or even a notched trowel starting from the bottom up, especially on larger surfaces.

When the first coat sets, apply the second one and finish the surface with a plastering float. Use a gauging trowel or taping knife for any small repairs. The mixture remains workable in the mixing container for 2 hours.

Apply the second coat within 2-3 hours from the application of the first one, without soaking.

Apply the product when temperatures range from +5°C to +35°C. During application and for the next 8 hour from its completion, there should be no chance of rain.

The addition of any type of improving additives or cement is prohibited!

■ ADVANTAGES

- Seals cracks and prevents their reappearance.
- Repairs and finishes prefabricated walls.

- Does not shrink.
- Highly durable over an extended period of time.
- Creates unbreakable adhesion on sound surfaces without primers, just by soaking the substrate.
- Has exceptional workability and high thixotropy.
- Paintable using acrylic paints of DUROSTICK.
- Improves the energy efficiency of buildings because it is water vapour permeable but not water permeable.
- Protects wall surfaces from rising damp caused by bouncing rain.
- Does not favour bacteria and mold growth.
- It has excellent mechanical and chemical durability.
- The most affordable way to repair major cracks, ensuring that they will not resurface. At the same time it shields and creates a water repelling coat that provides long-term protection against moisture penetration and damage related to it.

■ CLEANING

Clean all tools with water, immediately after use. The cured product can only be removed by mechanical means.

■ CONSUMPTION

1.5kg/m²/mm thick coat.

■ STORAGE

Store in the factory sealed packages, in dry and shaded places, for 12 months from production date.

■ SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

■ NOTES

- During the summer months, soak the surface 12 hours after the completion of the application to avoid premature dehydration.
- MEGAFIX should not be mixed with more water than it is specified.

■ PACKAGING

Paper bag of 5kg in a 4 pcs packaging.
Paper bag of 25kg on 1,200kg pallet.

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TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)	
■ Form - Color	Cementitious mortar - Off white
■ Bulk density of dry mortar	1.25±0.05kg/lt
■ Bulk density of fresh mortar	1.75±0.05kg/lt
■ Maximum grain size	0.8mm
■ Water requirement	4.25lt water in 25kg of mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -35°C to +90°C
■ Pot life	2 hours
■ Maximum application thickness	Up to 5mm/coat
■ Setting time	30 min
■ Chlorides content, per EN 1015-17	≤ 0.05%

PRODUCT PERFORMANCES	
■ Strength after 28 days per EN 1015-11 and EN 1290 to:	
• flexion	≥ 1.80 N/mm ²
• compression	≥ 10.00 N/mm ²
■ Adhesive strength after 28 days, per EN 1015-12:	≥ 1.00 N/mm ²
■ Capillary water absorption (c) per EN 1015-18:	≤ 0.10kg/m ² ·min ^{0.5}
■ Water vapor diffusion coefficient per EN 1015-19	μ 15/35
■ Thermal conductivity λ _{10, dry} per EN 1745 (Table A.12)	0,65 W/m·K
■ Reaction to fire, per EN 13501-1	Euroclass F

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