

INNO-MIX FOX BINDER FM125

Multipurpose Binder Additive for Cement Based Plasters and Screeds

Description

FOX BINDER FM125 is a copolymer dispersion based additive used to increase adherence and water impermeability in cement based mortars and plasters.

EN 934-2:2009+A1:2012/Table 9: Water Impermeability Chemical Additive

Fields of Application

- As an additive in repair mortars,
- As adhesion additive in mortars prepared for the repair of screeds and plasters, to increase the adhesion between old and new concrete,
- As a contribution to increase the adherence and water impermeability of internal and external plasters of water tanks, pools, treatment plants,
- Preparation of sprinkling plaster in coating mortars in screeds,
- It is used as an additive in mortars prepared for laying natural stone, brick, tile slabs as a surface preparation before applying plaster and ceramics.

Advantages

- Creates a strong and permanent adhesion.
- Provides excellent adherence.
- High resistance against chemical and mechanical attacks.
- Increases shrinkage resistance of plaster and screed, minimizes cracking of screed and plaster.
- Does not contain additives that cause corrosion.
- Increases resistance against freezing - thawing effect.
- Increases workability.

Technical Properties

Material Structure			Modified Polymer Dispersion
Density			1,05±0,05 gr/cm ³
Color			White
pH			5,5 -6
Chlorine content	EN 480-10		<%0,1
Alkaline content	EN 480-12		<%2
Capillary Water Absorption	EN 480-5	7 days	After 7 days curing/ Control mix ≤ 50% of test concrete (by mass)
		28 days	After 90 days curing/ Control mix ≤ 60% of test concrete (by mass)
Compressive Strength	EN 12390-3	28 days	Control mix ≥ 85% of test concrete
Air Quantity	EN 12350-7		≤%2
Application Temperature			+5°C /+35°C

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

Mixing

Preparation of mortar of 10 mm. and less thickness in repair mortars

Mix 1 part cement with 3 parts sand, The liquid mixture prepared by adding 2 parts of water to 1 part **FOX BINDER FM125** is added to the previously prepared powder mixture and a mortar of trowel consistency is obtained.

Preparation of 10 mm and more thick mortar

Mix 1 part cement with 3 parts sand. The liquid mixture prepared by adding 3 parts of water to 1 part **FOX BINDER FM125** is placed on the previously prepared powder mixture and a mortar of trowel consistency is obtained.

In plaster mortars

Mix 350 kg cement with 1 m3 washed river sand in suitable granulation. The mixture prepared by adding 120 liters of water into 5 kg of **FOX BINDER FM125** is added to the previously prepared powder mixture and mortar with trowel consistency is obtained. Surfaces should be wetted 12 hours before application and **FOX BINDER FM125** mortar should be applied on wet/dry surface.



Primer in Screeds (PCC)

It is used to prevent the formation of cold joints and increase adherence in new concrete or screed applications on old concrete. 1 part cement is mixed with 3 parts river sand, the liquid mixture prepared by adding 2 parts water to 1 part **FOX BINDER FM125** is added to the powder mixture. The mixture, which is brought to the consistency of Boza, is spread on the floor moistened 12 hours in advance with a brush with a thickness of 2 mm. Fresh concrete or screed should be applied without allowing the primer to dry.

Screed Preparation

At least 350 kg cement is mixed into 1 m³ washed river sand with suitable granulation. The liquid mixture prepared by adding 110 liters of water to 4 kg **FOX BINDER FM125** is added to the previously prepared powder mixture and brought to a consistency suitable for the gauge.

Application

Screed Applications

On the primer (PCC) applied on the surface with a thickness of 2 mm, the prepared **FOX BINDER FM125** additive screed is applied. Care should be taken not to dry the primer. First of all, (A) and (B) mixtures are mixed to the consistency of boza. The prepared material is applied with a brush with a thickness of 2 mm on the surface that has been pre-wetted for 12 hours. Fresh concrete should be placed on the primer before it dries, and the primer should not be allowed to dry. A new coat should be applied over the dry primer.

Coating Mortar

Mix 1 m³ aggregate, 250 kg. cement and 3 kg. **FOX BINDER FM125** with appropriate amount of water in appropriate granulation. The prepared mortar is laid. The lower surfaces of the stones to be laid are primed with PCC and the laying process is completed.

Spreading Mortar

Mix 1 m³ sand of suitable granulation, 350 kg. cement, 10 kg. **FOX BINDER FM125** and add water until it reaches the consistency of boza. 12 hours ago, it is applied to the moisturized surface with a spreader. Wait for drying. Before plastering or ceramic flooring works, the surface is wetted and application is started.

Consumption

Variable

Package

10 kg plastic water bottle
20 kg plastic bottle
1000 kg IBC

Shelf Life

When stored correctly at room temperature, away from direct sunlight, between +5°C and +30°C, the shelf life is 12 months from the date of production.

Storage

It should be stored in its unopened original packaging, in a cool and dry place, away from direct sunlight and protected from frost. For short-term storage, shipments should be made on a first-in, first-out basis. For long-term storage, pallets should not be stacked on top of each other.

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer

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