

INNO-MIX FOX BINDER FM125

Multi-Purpose Binding Additive for Cement Based Plasters and Screeds

Description

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

TS EN 934-2:2013 / Table 9: Water Impermeability Chemical Additive

Fields of Application

- As an additive in repair mortars,
- As an adherence additive in mortars prepared for the repair of screeds and plasters, in increasing the adherence between old and new concrete,
- As an additive to increase the water impermeability with adherence of interior and exterior plasters of water tanks, pools, treatment plants.
- Preparation of spreading plaster in coating mortars on screeds,
- It is used as an additive in the mortars prepared for laying natural stone, brick, tile plates, as a surface preparation before applying plaster and ceramics.

Advantages

- Creates a strong and permanent bond.
- Provides excellent adherence.
- High resistance against chemical and mechanical attacks is obtained.
- Increases the shrinkage resistance of the plaster and screed, and minimizes the cracking of the screed and plaster.
- It does not contain additives that cause corrosion.
- Increases resistance to Freezing - Thawing effect.
- Increases workability.

Technical Data

Structure of Material			Modified Polymer Dispersion
Density			1,05 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 28 days	After 7 days of curing/ Control mix ≤ 50% of the witness concrete (by mass) After 90 days of curing/ Control mix ≤ 60% of witness concrete (by mass)
Compressive Strength	EN 12390-3	28 days	Control mix ≥ 85% of the witness 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 extend the time.

Mixing

Preparation of 10 mm or less thickness mortar in repair mortars;

1 part of cement and 3 parts of sand are mixed, the liquid mixture prepared by adding 2 parts of water to 1 part of **FOX BINDER FM125** is added to the previously prepared powder mixture to obtain a trowel-consistency mortar.

Preparation of mortar with a thickness of 10 mm and more

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



In plaster mortars

In appropriate granulation, 1 m³ of washed river sand and 350 kg of cement are mixed. The mixture prepared by adding 120 lt of water to **FOX BINDER FM125** is added to the powder mixture prepared in advance to obtain a trowel-consistency mortar. The surfaces should be wetted 12 hours before the application, and **FOX BINDER FM125** adulterated mortar should be applied to the wet/dry surface.

Primer in Screed (PCC)

It is used to prevent cold joint formation and increase adherence in screed applications or new concrete applications on old concrete. 1 part of cement and 3 parts of river sand are mixed, the liquid mixture prepared by adding 2 parts of water to 1 part of **FOX BINDER FM125** is added to the powder mixture. The mixture, which is brought to the consistency of thick, is spread with a brush in a thickness of 2 mm on the surface that has been pre-wetted for 12 hours. Before allowing the primer to dry, fresh concrete or screed should be applied on it.

Screed Preparation

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

Application

In Screed Applications

The prepared adulterated mortar **FOX BINDER FM125** is applied on the Primer (PCC) applied to the surface with a thickness of 2 mm. Care should be taken that the primer does not dry out. First of all, the mixtures (A) and (B) are mixed in such a way that they reach the consistency of thick. The prepared material is applied with a brush in 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 dried primer.

Coating Mortar

1 m³ Aggregate in suitable granulation, 250 kg of cement and 3 kg of **FOX BINDER FM125** are mixed with appropriate amount of water. The prepared adulterated mortar is laid to surface. The lower surfaces of the stones to be laid are primed with PCC and the laying process is carried out.

Spreading Mortar

1 m³ of sand in suitable granulation, 350 kg of cement, 10 kg of **FOX BINDER FM125** are mixed and water is added until it reaches the consistency of thick. It is applied to the surface which is moistened from 12 hours ago with the help of a sprinkler tool and it is expected to dry. Before the plaster or ceramic flooring works, the surface is wetted and the application is started.

Consumption

Variable

Package

20 kg plastic bin

Shelf Life

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

Storage

Should be stored in its unopened original package, in a cool and dry place, away from direct sunlight and protected from frost. In short-term storage, shipment should be made with the first-in, first-out system. In long-term storage, pallets should not be placed 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, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

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



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Screeds
Table 9

Chlorine content / < %0,1

Alkaline content / < %2

Corrosion behavior / EN 934-1:2008- Contains the components in
Annex A.1

Dangerous Goods / See to the Safety Data Sheet

Capillary water absorption /

7 After 7 days of curing, in 7 days / test mix \leq 50% of the witness
concrete (by mass)

After 90 days of curing, at 28 days / test mix \leq 60% of witness
concrete (by mass)

Compressive strength / in 28 days / test mix \geq 85% of the witness
concrete

Amount of air in fresh concrete / \leq 2% (by volume)

