

INNO- CRETE FOX EPC MORTAR® FC255 / FC255 SL

Cement Based, Modified with Epoxy, Three Component Repair and Insulation Mortar

Description

FOX EPC MORTAR® FC255/FC255 SL is a cement based, epoxy modified, three components, formed the moisture barrier, surface correction, repair and insulation mortar.

In compliance with EN1504-3 standard /R4 class

Fields of Application

- In the protection of reinforced concrete elements that do not stay under sea water in ports and piers,
- In obtaining an impermeable and solid surface under epoxy insulation systems in treatment plants,
- In obtaining an impermeable and solid surface under epoxy paint in industrial facilities,
- As a thin repair mortar on concrete surfaces on between 0.5 mm - 3.0 mm thick,
- As surface correction and moisture barrier on vertical and horizontal surfaces before final coating,
- It is used on mineral (concrete) surfaces that have not completed hydration, under thin epoxy coatings.

Advantages

- Is applied without primer.
- Provides perfect adherence to moist surfaces.
- Can be coated with epoxy coatings.
- It is waterproof.
- It is resistant to freeze-thaw effect.
- Does not contain solvent.

Technical Data

Structure of Material	Epoxy modified, cement Polymer and mineral fillers		
Color	2,00 kg/lt		
Density	Gray		
Compression Strength TS EN 12190 (Self)	28 days	>38,2 N/mm ²	
Compression Strength TS EN 12190 (Plaster)	28 days	>42,9 N/mm ²	
Bending Strength TS EN 12190 (Plaster)	28 days	>14,1 N/mm ²	
Bending Strength TS EN 12190 (Sıva)	28 days	>23,4 N/mm ²	
Bond Strength TS EN 1542 to concrete	28 days	Min. 0,5 mm - Max. 3 mm	
Application Thickness	30 minutes		
Working Time	18 - 24 hours		
New Coated Time	28 days		
Fully cured time			



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

Application Procedure

Preparation of Substrate

The surfaces to be repaired must be robust and free of any residue that will weaken the adherence of the material. If the application surface is dry, it should be moistened slightly. Care should be taken to avoid water on the surface. All iron and wooden wedges on the surface should be removed and gaps up to 4 cm deep should be filled with **FOX MORTAR FC188 T**.



Mixing

FOX EPC MORTAR® FC255 / FC255 SL A and B components should be poured into a clean mixing bucket and mixed with an electric mixer with 400-600 rpm and suitable mixing tip for 2 minutes. Then component C should be added slowly and mixed for 3-4 minutes until a homogeneous and lump-free mixture is obtained. After resting for about 3 minutes and mixing again for 30 seconds, the material is ready for use.

Application

The prepared mixture is applied on the surface with a trowel between 0.5 mm and 3 mm thickness. The maximum application thickness should not exceed 3 mm. The surface can be smoothed with a steel trowel to achieve a smoother surface.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water **FOX EPC MORTAR® FC255/FC255 SL** can only be mechanically cleaned from the surface after hardening.

Coverage

To obtain 1 mm thickness, approximately 1,70 kg/m² powder product should be used.

Watch Points

- **FOX EPC MORTAR® FC255/FC255 SL** should be applied within 30 minutes at +20°C. This time decreases to 20 minutes at +30°C.
- In outdoor applications, the application area should be protected from sun, rain, wind and frost for the first 24 hours.
- Working and reaction times of special cement based repair mortars are affected by air temperature, humidity and floor temperatures. High temperatures accelerate hydration and the working time is shortened accordingly. Low temperatures slow down hydration, and thus extend the working time.
- In order for the material to complete its curing, the floor temperature and ambient temperature to be applied must not fall below the minimum allowed value.
- No solvent etc. should be added to the mixture prepared during the application.
- Wide surfaces open to the atmosphere, especially hot, dry or windy environments, should be protected from external factors such as rain etc.

Package

26 kg Set

Component A: 1,40 kg tin bucket

Component B: 3,90 kg tin bucket

Component C: 20,70 kg polythene craft bag

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. Opened packages should be consumed within 1 week by closing their mouths.

Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and 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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