

INNO-CRETE

FOX POLYHAFT FC305 2K

Cement Based, Two Component, Acrylic Polymer Modified, Anti-Corrosion and Adherence Enhancing Primer

Description

FOX POLYHAFT FC305 2K is a cement based, two components, polymer modified, anti-corrosion coating and adherence enhancing primer material for steel reinforcements.

Fields of Application

- In the protection of reinforcements from corrosion before the application of repair mortars in reinforced concrete repairs,
- As an adhesion increasing primer before screed indoors and outdoors,
- As adherence enhancer between old and new concrete,
- As adherence enhancer before plaster application indoors and outdoors,
- As adherence enhancer for repair mortars, ready mixed concrete, fast curing screeds, drainage and screed mortars, and conventional sand-cement mortars,
- Used as adherence enhancer for transparent natural stones that are not insensitive to staining.

Advantages

- Provides strong adhesion strength after preparing the smooth substrate and high adhesion reliability.
- It is resistant to freeze-thaw effect.
- Can be easily applied by brush or wet spray system.
- Resistant to chloride penetration.
- Resistant to the effects of frost and dissolving salts.
- It is not affected by ambient humidity.
- Has high mechanical strength.

Technical Data

Structure of Material		Mineral Filler and Polymer Reinforced Special Cement
Density	fresh mortar	1,93 g/cm ³
Color		Gray
Bond Strength	28 days	>2,5 N/mm ²
Application Surface Temperature		+5°C / +30°C
Service Temperature		+5°C / +30°C
Application Thickness		1-2 mm
Working Time		~45 minutes



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 surface to be applied must be solid, free from any oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface and all loose parts must be cleaned. The surface should be wetted with water before application, but ponding should not be allowed. If the coating material loses its water and gets a matte appearance during the application, it is understood that the surface is not wetted sufficiently or it dries fast. Application should not be made in cases where such air is hot or materials are exposed to wind.

Mixing

1/2 of the **FOX POLYHAFT FC305 2K Component B** is poured into a clean mixing bowl. While **FOX POLYHAFT FC305 2K Component A** is added slowly into the component B, it is mixed with an electric mixer with 400-600 rpm and suitable mixing tip for about 3-5 minutes until a homogenous mixture is obtained. No lumps should remain in the material. The mixture is rested for 2 minutes until it becomes a paste consistency, and the remaining **component B** is added and mixed for 1-2 minutes to be ready for application.



Application

The prepared **FOX POLYHAFT FC305 2K** mixture is applied in two or three layers with the help of an insulating brush. The brush application direction on each layer should be perpendicular to each other. Waiting time between layers varies according to the ambient conditions. **Do not allow the FOX POLYHAFT FC305 2K mortar to dry!** Screed mortar or cement mortar should be applied wet and compact immediately.

Mixing Rates

25 kg/1 bag **FOX POLYHAFT FC305 2K** Component A is mixed with 6 liters **FOX POLYHAFT FC305 2K** Component B.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water **FOX POLYHAFT FC305 2K** can only be mechanically cleaned from the surface after hardening.

Coverage

1-1,5 kg/m² as adherence mortar

It is required to reinforcement as a corrosion inhibitor for a 2 kg/m² coat.

Watch Points

- In the application of **FOX POLYHAFT FC305 2K**, if the ambient and surface temperature is below +5°C or above +25°C, suitable temperatures should be expected. Application should not be done in extremely hot, rainy or windy weather. **FOX POLYHAFT FC305 2K** applied at +23°C reaches its final strength after 28 days.
- 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.

Package

31 kg set

Component A; 25 kg polyethylene reinforced kraft bag

Component B; 6 kg tin gallon

Shelf Life

When stored properly at room temperature, away from direct sunlight, between + 5°C and + 30°C, shelf life is 6 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.

Disclaimer

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