

INNO- CRETE FOX MORTAR FC188

High Strength, Fluid Structural Repair Mortar

Description

FOX MORTAR FC188 is a cement based, one component, fiber reinforced, fluid consistency, high strength repair mortar.

Public works pose No: 04.613/3c

In compliance with EN1504-3 standard /R4 class

Fields of Application

- In Structural concrete floor repairs,
- In the coating of concrete to protect against sulfate and chlorine effects,
- In laying concrete repairs,
- Repairs of marine structures,
- Surface repairs and on concrete to be applied with special coatings, to be exposed light and medium traffic load
- Used in concrete road repairs.

Advantages

- It is mixed with water only, it is easily applied by pouring into mold.
- Provides high adherence to concrete and reinforcement.
- It has high compressive strength.
- Resistant to freeze-thaw effect.
- Resistant to chlorine and sulphate attacks.
- Resistant to oils.
- Does not shrink (shrinkage).
- Cured fast.

Technical Data

Structure of Material	Mineral filler, fiber, polymer special cement		
Density	2,25 kg/lt		
Color	Gray		
Compression Strength TS EN 196	1 day	20 N/mm ²	
	7 days	48 N/mm ²	
	28 days	60 N/mm ²	
Bending Strength TS EN 196	28 days	12 N/mm ²	
Bond Strength TS EN 1542 to concrete	28 days	2 N/mm ²	
Elasticity Module	28 days	20KN/mm ²	
Application Thickness	Min. 10 mm - Max. 40 mm		
Application Surface Temperature	+5°C / +30°C		
Service Temperature	-20°C / +40°C		
Working Time	30 minutes		
Pedestrian Walkable Time	24 hours		
Fully cured time	28 days		

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 from all kinds of dust and dirt. Cracked surfaces to be repaired should be steepen as much as possible. Water should be drained away from excessively wet and puddled surfaces. Dry surfaces should be slightly moistened.

Mixing

The appropriate amount of water described on the packaging is poured into a clean mixing bowl. While **FOX MORTAR FC188** is added slowly into the water, it is mixed with an electric mixer with 400-600 rpm and suitable mixing tip for about 3-4 minutes until a homogenous mixture is obtained. No lumps should remain in the material. After the material is rested for about 3 minutes, it is mixed again for 1 minute and made ready for application.

Mixing Rates

Approximately 170 ml of water should be used for 1 kg of **FOX MORTAR FC188**.

Approximately 4,25 lt of water should be used for 25 kg/1 bag **FOX MORTAR FC188**.

Application

The prepared mixture is placed on the mold or cut surface so as not to exceed 4 cm in single casting. Care must be taken to ensure that no air is trapped in the mold when the installation is made. For this reason, the material is placed in cavities in the mold with a trowel or steel rod. The vibrator should not be used. Molds must be protected by wet sack or curing material on the surface of the material in case of extreme wind and temperature not taken before 24 hours. Mortar surface should not be irrigated during drying. The material remains in the container for 30 minutes at + 20°C. When temperatures rise, period shortens. The material should be placed immediately after mixing.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water **FOX MORTAR FC188** can only be mechanically cleaned from the surface after hardening.

Coverage

To obtain 1 mm thickness, approximately 2,00 kg/m² powder product should be used.

Watch Points

- Cured fast.
- **FOX MORTAR FC188** should be applied within 30 minutes at +20°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.
- It should not be used in contact with plasters with a pH value less than 5.5.
- The vibrator should never be used while placing the material.

Package

25 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.

Disclaimer

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