

## INNO- CRETE FOX BASEMOR® FC205

### High Strength, Fine Repair and Surface Correction Mortar

#### Description

**FOX BASEMOR® FC205** is a cement based, one component, polymer reinforced, and containing silica fume, high strength fine repair and surface correction mortar.

#### In compliance with EN1504-3 standard /R3 class

#### Fields of Application

- Repairing and correcting surface defects of concrete structural elements,
- To obtain a solid and smooth surface under epoxy paints in industrial plants,
- Repair and plastering of exposed concrete,
- In obtaining a solid and impermeable surface on exposed concrete,
- Correction of concrete surfaces before waterproofing and surface leveling of areas repaired with structural repair mortars,
- Repair of wall and ceiling plasters,
- It is used to obtain a smooth and impermeable surface before painting on concrete surfaces.

#### Advantages

- Mixed only with water.
- Has high strength.
- Is applied easily and fast.
- Has a paste consistency.
- Provides smooth surface finish.
- Can be applied crack-free and easily on large surfaces.
- Resistant to freeze-thaw effect.
- Provides high adherence to concrete and plastered surfaces.
- Has high thixotropic feature.
- It does not shrink (shrinkage).

#### Technical Data

Structure of Material	Mineral filler, polymer reinforced Containing silica fume, special cement		
Density	2,10 kg/lt		
Color	Gray-white		
Compression Strength	TS EN 12190	1 day	20 N/mm <sup>2</sup>
		7 days	35 N/mm <sup>2</sup>
		28 days	40 N/mm <sup>2</sup>
Bending Strength	TS EN 12190	28 days	9 N/mm <sup>2</sup>
Bond Strength	TS EN 1542 to concrete	28 days	2 N/mm <sup>2</sup>
Application Thickness	Min. 1mm - Max. 5mm		
Application Surface Temperature	+5°C / +30°C		
Service Temperature	-20°C / +80°C		
Working Time	45 min		
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 the Substrate

The surfaces to be repaired must be robust and free from all kinds of dust and dirt. Surfaces requiring deep repair should be repaired with **FOX MORTAR FC188 T** repair mortar. The surface should be slightly moistened with water.

### Mixing

The appropriate amount of water described on the packaging is poured into a clean mixing bowl. **FOX BASEMOR® FC205** is added slowly into the water, it is mixed with an electric mixer with 400-600 rpm and suitable mixing tip for about 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 30 seconds and made ready for application.

**NOTE:** Mixing times must be strictly conformed to before required consistency control. The consistency should not be provided by adding additional water.

### Mixing Rates

Approximately 190 ml of water should be used for 1 kg of **FOX BASEMOR® FC205**.

Approximately 4,75 lt of water should be used for 25 kg / 1 bag **FOX BASEMOR® FC205**.

### Application

The prepared mixture is applied by a trowel in a single layer with a thickness of 1-5 mm. After the mortar sets, water is sprinkled on the surface and the surface is leveled by sponge, wood or steel trowel.

### Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water **FOX BASEMOR® FC205** can only be mechanically cleaned from the surface after hardening.

### Coverage

To obtain 1 mm thickness, approximately 1,72 kg/m<sup>2</sup> powder product should be used.

### Watch Points

- Mixed only with water.
- **FOX BASEMOR® FC205** should be applied within 45 minutes at +20°C. This time decreases to 20-25 minutes at +30°C.
- In exterior surface applications, the surface should be protected from sun, wind, rain and frost for the first 24 hours after application.
- 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.
- In outdoor applications, the application area should be protected from sun, rain, wind and frost for the first 24 hours.

### 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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**1020 - CPR - 040 058065**

**Dop No: 0045**

**EN 1504-3:2005**

**FOX BASEMOR FC205**

High Strength, Fine Repair and Surface Correction Mortar

Methods 3.1, 3.2

Compressive strength / Class R3  $\geq$  25 Mpa

Chloride ion content /  $\leq$  %0,05

Bond formed by bonding condition / Class R3  $\geq$  1,5 Mpa

Limited shrinkage / expansion / Class R3  $\geq$  1,5 Mpa

Reaction to Fire / Class E

