

INNO-CRETE FOX BASEMOR FC205

High Strength, Thin Repair and Surface Leveling Mortar

Description

FOX BASEMOR FC205 is a cement based, one component, polymer reinforced, silica fume containing, high strength thin repair and surface leveling mortar.

EN 1504-3:2005/R3 Class - Provides the requirements of Principle 3.1 and 3.2.

R3: ≥ 25 N/mm² Compressive Strength

Fields of Application

- Repair and leveling of 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,
- To obtain a solid and impermeable surface in exposed concrete,
- Leveling of concrete surfaces before waterproofing and surface leveling of areas repaired with structural repair mortars,
- Repair of wall and ceiling plaster,
- It is used to obtain a smooth and impermeable surface on concrete surfaces before painting.

Advantages

- It is mixed with water only.
- High strength.
- Easy and fast application.
- It has putty consistency.
- Provides smooth surface finish.
- Easy and crack-free application on large surfaces.
- Resistant against freezing - thawing effect.
- Provides high adherence to concrete and plastered surfaces.
- High thixotropic properties.
- Does not shrink (shrinkage).

Technical Properties

Material Structure				Mineral fillers, polymer reinforced, special cements containing silica fume
Density				2,10±0,1kg/lt
Color				Gray-White
Compressive Strength	EN 12190		1 day	≥ 20 N/mm ²
			7 days	≥ 35 N/mm ²
			28 days	≥ 40 N/mm ²
Flexural Strength	EN 196-1		28 days	≥ 9 N/mm ²
Chlorine Ion Content	EN 1015-17			$\leq 0,05$
Adhesion Strength	EN 1542	Concrete	28 days	$\geq 1,5$ N/mm ²
Restricted contraction/expansion	EN 12617-4			$\geq 1,5$ MPa
Resistance to Carbonation	EN 13295			$d_k \leq (MC(0,45))$
Fire Class	EN 13501-1			A1
Application Thickness				Min. 1mm - Max. 5mm
Floor Temperature				+5°C /+30°C
Pot Life				~45 min
Maturation Time				3-5 min
Full Curing Time				28 days

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

Application Procedure

Substrate Preparation

The surfaces to be repaired must be sound 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 package is poured into a clean mixing bowl. While **FOX BASEMOR FC205** is slowly added into the water, it is mixed with an electric mixer with 400-600 rpm and a suitable mixing tip for about 2-3 minutes until it becomes homogeneous. There should be no lumps in the material. After the material is rested for 3-5 minutes during the maturation period, it is mixed again for 1 minute and made ready for application.



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WARNING: Mixing times must be strictly adhered to before necessary consistency checks. Consistency should not be achieved by adding additional water.

Mixing Ratios

Approximately 4,75±0,25 liters of water should be added for 25 kg/1 Bag **FOX BASEMOR FC205**
Approximately 190±10 ml of water should be added for 1 kg **FOX BASEMOR FC205**

Application

The prepared mixture is applied with a trowel at a thickness of 1-5 mm at once. After the mortar absorbs, the surface is sprinkled with water and smoothed with a sponge, wooden or steel trowel.

Cleaning of Tools

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

Consumption

To achieve 1 mm thickness, approximately 2,10 kg/m² powder product should be used.

Watch Points

- Mix only with water,
- **FOX BASEMOR FC205** should be applied within 45 minutes at +23°C. This time is 20-25 minutes at +30°C.
- Working and reaction times of cement based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures, hydration slows down, which prolongs pan life and working time. High temperatures accelerate hydration and the times mentioned above are shortened accordingly. For the material to complete setting, the ambient and ground temperature should not fall below the minimum permissible temperature.
- For outdoor applications, the surface should be protected from sun, wind, rain or frost for the first 24 hours after application.

Package

25 kg polyethylene kraft bag

Shelf Life

When stored correctly at room temperature, away from direct sunlight, between +5°C and +30°C, the shelf life is 12 months from the date of production. Opened packages should be closed and consumed within 1 week.

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out system. For long term storage, pallets should not be stacked 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, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

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

Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. Our company cannot be held responsible for the consequences that may occur due to misuse and/or other than the written suggestions about where and how the product will be used. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.



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