

**INNO- CRETE****FOX SLIM MORTAR FC105****Cement-Based, Ready-to-Use, Fine Repair Mortar****Description**

**FOX SLIM MORTAR FC105** is a cement-based, polymer-modified, single-component, ready-to-use fine repair mortar.

**Complies with EN 1504-3 standard/Class R3.****Fields of Application**

- For interior and exterior applications, on horizontal and vertical surfaces,
- For the repair of reinforced concrete structures,
- For the repair and plastering of walls and ceilings,
- Used for surface repairs before tile and ceramic applications.

**Advantages**

- Easy to apply.
- Can be applied on all concrete surfaces.
- Does not shrink.
- Provides high adhesion to concrete and plastered surfaces.
- Provides a smooth surface finish.
- Exhibits high thixotropic properties.
- Resistant to freeze-thaw effects.

**Technical Properties**

Material Structure			Polymer-modified, fiber-reinforced, cement-based mortar
Dry Bulk Density			1.30±0.05 kg/L
Fresh Mortar Density			1.80±0.05 kg/L
Color			Grey
Compressive Strength	EN 12190	28 day	≥25 N/mm <sup>2</sup>
Adhesion Strength (to Concrete)	EN 1542	28 day	≥1.5 N/mm <sup>2</sup>
Restrained Shrinkage / Expansion	EN 12617-4		≥1.5 MPa
Chloride Ion Content	EN 1015-17		≤0.05%
Modulus of Elasticity	EN 13412		≥15000 N/mm <sup>2</sup>
Capillary Water Absorption	EN 13507		≤0.5 kg/m <sup>2</sup> .h <sup>0.5</sup>
Fire Class	EN 13501-1		A1
Application Thickness			Min. 1 mm – Max. 5 mm
Maturing Time			3-5 minutes
Pot Life			~30 minutes
Full Curing Time			28 days
Applicable Substrate Temperature			+5°C/+30°C

The above values are given at +23°C and 50% relative humidity. Higher temperatures shorten the stated times, while lower temperatures extend them

**Application Procedure****Surface Preparation**

The surfaces to be repaired must be sound and free from all kinds of dust and dirt. **FOX MORTAR FC188 T** should be used in areas where the repair depth exceeds 5 mm. Before application, the surface should be moistened with water, but ponding must be avoided. If, during application, the coating material loses its water rapidly and takes on a dull appearance, it indicates that the surface has not been sufficiently moistened or is drying too quickly. In such cases, such as hot weather conditions or when the materials are exposed to wind, the mixing water should be increased by 10%.

**Mixing**

The appropriate amount of water specified on the packaging is poured into a clean mixing container. While **FOX SLIM MORTAR FC105** is added slowly into the water, it is mixed for approximately 2–3 minutes with an electric mixer operating at 400–600 rpm and a suitable mixing paddle until a homogeneous mixture is obtained. No lumps should remain in the material. After resting for 3–5 minutes during the maturing time, the material is mixed again for 1 minute and then made ready for application.



www.foxbau.com

**FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ**

Merkez : Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı-ANTALYA/TÜRKİYE  
Telefon : 0(242) 221 42 50 Fax : 0(242) 221 42 55  
Şube 1 : Kargalı Hanbabaosb Mah. Organize San. 10. Sk. No:6 Hendek-Sakarya/TÜRKİYE  
Şube 2 : Oyalı OSB Mahallesi 3. Cadde No:21 Eğin-Diyarbakır/TÜRKİYE  
Web : www.foxbau.com E-mail : info@foxbau.com

## Mixing Ratios

Approximately 4.75±0.25 L of water should be used for 25 kg/1 bag of **FOX SLIM MORTAR FC105**.  
Approximately 190±10 mL of water should be used for 1 kg of **FOX SLIM MORTAR FC105**.

## Application

The prepared mixture is applied in a single layer with a trowel at a thickness of 1–5 mm. After the mortar begins to set, water is sprinkled onto the surface and it is finished with a sponge, wooden float, or steel trowel.

## Cleaning of Tools

Tools and equipment used after application should be cleaned immediately with water. Once **FOX SLIM MORTAR FC105** has hardened, it can only be removed from the surface mechanically.

## Consumption

Approximately ~1.40 kg/m<sup>2</sup> of powder product should be used to obtain a thickness of 1 mm.

## Points to Consider

- The repair mortar should be applied within 30 minutes at +20°C. This time decreases to 20 minutes at +30°C.
- For exterior applications, the surface must be protected from sun, wind, rain, and frost during the first 24 hours after application.
- The working and reaction times of cement-based systems are affected by ambient and substrate temperature as well as the relative humidity of the air. At low temperatures, hydration slows down, which extends the pot life and working time. High temperatures accelerate hydration, and accordingly, the above-mentioned times are shortened. In order for the material to complete its setting, the ambient and substrate temperature must not fall below the minimum permitted temperature.

## Packaging

25 kg polyethylene kraft bag

## Shelf Life and Storage

The product should be stored in its unopened original packaging, in a dry and cool environment (+5°C to +30°C), protected from direct sunlight and frost. If stored under the specified conditions, the shelf life is 12 months from the date of production. Opened packages should be tightly closed and consumed within 1 week. For short-term storage, a maximum of 2 pallets may be stacked, and shipment should be carried out according to the 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 storage and application areas with fire. Storage and application areas should be well ventilated. During application, work clothing, protective gloves, goggles, and masks complying with occupational health and safety regulations must be used. Contact with skin and eyes should be avoided during storage and application. In case of contact, wash immediately with plenty of water and soap. If swallowed, seek medical attention immediately. Food and beverages must not be brought into application areas. Store out of reach of children. For detailed information, refer to the Material Safety Data Sheet (MSDS).

## Liability

The data contained in this technical document are 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 any consequences arising from uses other than the written recommendations regarding where and how the product should be used and/or from incorrect applications. For detailed information, please refer to the safety data sheet and technical data sheet or contact our company representatives.



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