

# INNO-CRETE

## FOX REPMORTAR FC135

### Cement-Based, Ready-to-Use, Thick Repair Mortar

#### Description

**FOX REPMORTAR FC135** is a cement-based, polymer-modified, single-component, ready-to-use structural repair mortar for thick applications.

**Complies with EN 1504-3 standard/Class R4.**

#### Fields of Application

- Suitable for indoor and outdoor applications, on horizontal and vertical surfaces,
- Used for the repair of reinforced concrete structures,
- Used for filling tie-rod holes and core drill holes.

#### Advantages

- Has high compressive strength.
- Can be applied on all concrete surfaces.
- Shrinkage-free.
- Provides high adhesion to concrete and plastered surfaces.
- Easy to apply; only requires mixing with water.
- Exhibits high thixotropic properties.
- Resistant to freeze-thaw cycles.

#### Technical Properties

Material Structure			Polymer-modified, fiber-reinforced, cement-based mortar
Dry Bulk Density			1.35±0.05 kg/L
Fresh Mortar Density			1.90±0.05 kg/L
Color			Grey
Compressive Strength	EN 12190	28 gün	≥45 N/mm <sup>2</sup>
Adhesion Strength (to Concrete)	EN 1542	28 gün	≥2.0 N/mm <sup>2</sup>
Restricted Shrinkage / Expansion	EN 12617-4		≥2.0 N/mm <sup>2</sup>
Chloride Ion Content	EN 1015-17		≤0.05%
Modulus of Elasticity	EN 13412		≥20000 N/mm <sup>2</sup>
Capillary Water Absorption	EN 13507		≤ 0.5 kg/m <sup>2</sup> ·h <sup>0.5</sup>
Reaction to Fire Class	EN 13501-1		A1
Application Thickness			Min. 5 mm - Max. 40 mm
Curing Time			3-5 minutes
Pot Life			~30 minutes
Full Curing Time			28 days
Substrate Temperature for Application			+5°C / +30°C

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the duration, while low temperatures extend it.

#### Application Procedure

##### Surface Preparation

The surfaces to be repaired must be sound and free from all kinds of dust and contaminants. Weak and loose parts on the surface must be removed.

##### Mixing

The required amount of water specified on the packaging is poured into a clean mixing container. **FOX REPMORTAR FC135** is added gradually into the water and mixed with a 400-600 rpm electric mixer and a suitable mixing paddle for approximately 2-3 minutes until a homogeneous mixture is obtained. The mixture should be free of lumps. After allowing the material to rest for 3-5 minutes (maturation time), it should be mixed again for 1 minute and then becomes ready for application.

##### Mixing Ratios

For 25 kg (1 bag) of **FOX REPMORTAR FC135**, approximately 4.50±0.25 L of water should be used.  
For 1 kg of **FOX REPMORTAR FC135**, approximately 180±10 ml of water should be used.



#### 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 : Oyacı OSB Mahallesi 3. Cadde No:21 Eğil-Diyarbakır/TÜRKİYE  
Web : www.foxbau.com E-mail : info@foxbau.com

## Application

The prepared mixture is applied in a single layer with a trowel at a thickness of 5–40 mm. After the mortar begins to set, the surface is moistened with water and finished using a sponge, wooden, or steel trowel. In applications carried out under excessively hot, dry, or windy conditions, the surface should be protected against rapid evaporation for 48 hours using wet burlap or curing materials.

## Cleaning of Application Tools

Tools and equipment used should be cleaned with water immediately after application. Once hardened, **FOX REPMORTAR FC135** can only be removed mechanically from the surface.

## Consumption

Approximately 1.50 kg/m<sup>2</sup> of powder product is required to achieve 1 mm thickness.

## Points to Consider

- **FOX REPMORTAR FC135** should be applied within 30 minutes at +20°C. This time decreases to 20 minutes at +30°C.
- In outdoor applications, the applied surface must be protected from sun, rain, wind, and frost for the first 24 hours.
- Working and reaction times of cement-based repair mortars are affected by air temperature, humidity, and substrate temperature.
- High temperatures accelerate hydration and accordingly shorten the working time. Low temperatures slow down hydration, which extends the working time. To ensure proper curing, the substrate and ambient temperatures must not fall below the minimum recommended 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 (between +5°C and +30°C), protected from direct sunlight and frost. When stored under the specified conditions, the shelf life is 12 months from the date of production. Opened packages should be tightly closed and used within 1 week. For short-term storage, a maximum of 2 pallets should be stacked, and shipment should be carried out according to the first in, first out (FIFO) system. For long-term storage, pallets should not be stacked.

## Safety Precautions

Approaching storage and application areas with fire is dangerous. Storage and application areas must be well ventilated. During application, appropriate workwear, protective gloves, goggles, and masks in compliance with occupational health and safety regulations must be used. Avoid contact with skin and eyes 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 should not be brought into application areas. Store out of reach of children.

For detailed information, refer to the Safety Data Sheet (SDS).

## Liability

The information provided in this technical document is based on our scientific and practical knowledge. Fox Bau Construction Chemicals Inc. is only responsible for the quality of the product. Our company cannot be held responsible for any consequences arising from improper use and/or applications other than the written recommendations regarding where and how the product is used. For detailed information, please refer to the Safety Data Sheet and Technical Data Sheet or contact our company representatives.

