

INNO- CRETE FOX FASTMORTAR® FC233

Fast Curing, Cement Based, High Strength, Self-Levelling Grout Mortar

Description

FOX FASTMORTAR® FC233 is a cement based, polymer reinforced, non-shrinking, self levelling, fast curing, repair and bedding mortar developed for places requiring high strength in a short time.

Public works pose No: 04.613/3c

In compliance with EN1504-3 standard /R4 class

Fields of Application

- Repair and upgrade of manhole covers and beds,
- Repairing sewer walls,
- Fast repair of runway and platform concrete,
- Repair of concrete surfaces exposed to vehicle and pedestrian traffic,
- It is used for assembling curbs and paving stones.

Advantages

- It gains fast resistance, it can be opened to traffic 1 hour after application, it takes fast setting.
- Is mixed only with water, it can be easily applied by pouring it into the mold.
- Has high compressive strength.
- Shows high flow feature.
- Does not decompose and water vomit.
- It is resistant to freeze-thaw effect.

Technical Data

Structure of Material			Polymer reinforced, special cement and mineral filler
Density			2,32 kg/lit
Color			Gray
Mixing Ratio			3,0-3,5 lt Water / 25 kg Powder
Compression Strength	TS EN 196	1 hour	≥ 15 N/mm ²
		24 hours	≥ 30 N/mm ²
		28 days	≥ 60 N/mm ²
Bending Strength	TS EN 196	24 hours	≥ 5 N/mm ²
		28 days	≥ 10 N/mm ²
Grain Size D max:			2mm
Application Thickness			10 mm - 40 mm
Application Surface Temperature			+5°C / +30°C
Working Time			7 minutes
Curing Initial Time			15 minutes
Walkable on			1 hour
Fully Cured time			28 days
Self Levelling	EN 413-2		> 25 cm

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 puddled surfaces. Dry surfaces should be slightly moistened.

Mixing

It is strongly recommended to mix only full and unopened bags. Damaged and opened bags should never be used. The amount of suitable and clean water described on the packaging is poured into a clean mixing bowl. While **FOX FASTMORTAR® FC233** is added slowly and continuously into the water, it is mixed for about 3-4 minutes until it becomes homogeneous with an electric mixer with 400 - 600 rpm and suitable mixing tip. No lumps should remain in the material.

NOTE: Mixing times must be strictly observed before required consistency checks. The consistency should not be provided by adding additional water.

Mixing Rates

Approximately 120-140 ml of water should be used for 1 kg of **FOX FASTMORTAR® FC233**.

Approximately 3,00- 3,50 lt of water should be used for 25 kg / 1 bag **FOX FASTMORTAR® FC233**.

Application

The prepared mortar; It should be poured into the pre-prepared mold in a single layer with a thickness between 10 mm and 50 mm. Molds can be removed after 15 minutes depending on the ambient temperature. For applications thicker than 50 mm, please consult our technical unit.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water. **FOX FASTMORTAR® FC233** can only be mechanically cleaned from the surface after hardening.

Coverage

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

Watch Points

- **FOX FASTMORTAR® FC233** should be applied within 7 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.
- When used together with fine aggregate, the materials should be poured into a bucket full of water after mixing as dry. Mixing water can be increased by a maximum of 10%.

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 6 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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