

INNO- CRETE FOX EPOFLOW FC520

Epoxy Resin Based, Flowable Consistent, Adhesive Mortar

Description

FOX EPOFLOW FC520 is an epoxy resin based, two-component, solvent-free, flowing consistency, adhesive material that can be applied by brushing or pouring, providing adherence between old and new concrete, and used for bonding different types of materials together.

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In compliance with EN1504-3 standard /R4 class

Fields of Application

- As adherence material between old and new concrete,
- For bonding different materials such as iron, steel, stone, concrete,
- As an adhesive on anchoring and assembling of the reinforcement or for iron sprout planting on horizontal surfaces,
- It is used to protect the reinforcement from corrosion before the application of repair mortars.

Advantages

- Applied by brush or poured.
- Does not contain solvent.
- Has high tensile strength.
- Protects the reinforcements against corrosion.
- Holds on well even on damp surfaces.

Teknik Özellikleri

Structure of Material	Component A	Epoxy Resin
	Component B	Epoxy Hardener
Density		1,55 kg/lt
Color		Gray - Fume
Solid Content Ratio		%100
Viscosity		8500 mPa.s
Compression Strength	TS EN 12190	1 day > 50 N/mm ² 7 days > 80 N/mm ²
Bending Strength	TS EN 12190	1 day > 20 N/mm ² 7 days > 30 N/mm ²
Tensile Strength	BS 6319-7	7 days > 20 N/mm ² 28 days > 30 N/mm ²
Bond Strength	To concrete	7 days >3 N/mm ²
	To steel	7 days >3,5 N/mm ²
Elasticity Module	TS EN 13412	28 days > 5000 N/mm ²
Application Thickness		Min. 0,5 mm - Max. 30 mm
Application Surface Temperature		+10°C / +30°C
Service Temperature		-30°C / +80°C
Working Time		60 minutes
Casting Range of New Concrete		Min. 5 minutes - Max. 40 minutes
Fully cured time		7 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 Substrate

The application surfaces should be robust and free from all kinds of dust, dirt, oil, rust and dirt. Care should be taken to avoid any ponding on the surface. Metal surfaces should be decontaminated from rust. In the repairs to be made, the edges of the broken surface should be cut upright. Rust in the reinforcement should be cleaned and even new reinforcement should be added.

Mixing

Before starting the mixing, make sure that the material temperatures are between +15°C and +25°C. **FOX EPOFLOW FC520** Component B is completely poured into component A. It is mixed for at least 3 minutes with 400 - 600 rpm by an electric mixer and suitable mixing tip by taking care not to leave unmixed material on the packaging edge or base.

Application

For adherence of new concrete to old concrete, **FOX EPOFLOW FC520** mixture should be applied by applying on old concrete surfaces by brush or roller. On damp surfaces, the material should be absorbed to the surface thoroughly. Following this process, new concrete must be poured within the period (5-40 minutes) when the material retains its adhesiveness depending on the air temperature. Appropriate mortar gun should be used in vertical anchorage applications. In addition, the holes to be anchored must be at least 6 mm larger than the anchor bar. The holes opened must be cleaned with the help of wire brush and compressed air. After the hole to be anchored is filled, the anchor bar is placed by turning.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with solvent. **FOX EPOFLOW FC520** can only be mechanically cleaned from the surface after hardening.

Coverage

To obtain 1 mm thickness, approximately 1.60 kg/m² powder product should be used.

Watch Points

- **FOX EPOFLOW FC520** must be mixed with a suitable mixing drill. It should never be mixed by hand or trowel.
- Working and hardening times of epoxy resin based products depend on the ambient and ground temperature.
- The most suitable application temperature range is +5°C to +30°C. The working time of the mixed material at low temperatures is long and its working time at high temperatures is short.
- Solvent etc. materials must not be added to **FOX EPOFLOW FC520** mixture.
- In order for the material to complete its curing, the ground temperature and ambient temperature to be applied must not fall below the minimum allowed value.

Package

5,00 kg Set

Component A: 3,33 kg Tin Bucket

Component B: 1,67 kg Tin Bucket

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.



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