

INNO- CRETE

FOX CARBOND® PRIMER

Epoxy Resin Based Primer Developed for Structural Strengthening Systems

Description

FOX CARBOND® PRIMER is an epoxy-based, two-component, low-viscosity primer specifically developed for structural strengthening systems.

Fields of Application

- Used as a conditioning and adhesion-promoting primer on surfaces where carbon fiber fabrics (**FOX CARBOND® FIBER**) and carbon plates (**FOX CARBOND® PLATE**) will be bonded.

Advantages

- Low viscosity.
- Easy to apply.
- High mechanical strength.
- Provides excellent adhesion to concrete surfaces.

Technical Properties

Material Structure		Component A	Epoksi Resin
		Component B	Epoxy Hardener
Color			Transparent
Density			1,05 gr/cm ³
Compressive Strength	7 days	EN 12190	>35 N/mm ²
Flexural Strength	7 days	EN 12190	>20 N/mm ²
Bond Strength	To Concrete	EN 1542	>3 N/mm ²
Application Temperature			+5°C / +30°C
Full Curing Time			7 days

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

Application Procedure

Surface Preparation

Surfaces to be treated must be sound, dry, load-bearing, dust-free, and clean. All substances that may reduce adhesion such as oil, grease, rust, and paraffin residues must be thoroughly removed. Surface irregularities should be repaired using structural repair mortars.

Mixing

Before mixing, ensure that the product temperature is between +5°C and +30°C. Mix Component A of **FOX CARBOND® PRIMER** using a suitable mechanical mixer for 1 minute without entrapping air. Then pour Component B into Component A. Mix continuously for 2 minutes until a homogeneous mixture is obtained.

Application

The prepared mixture should be applied by roller onto concrete surfaces, ensuring proper impregnation of the substrate.

Cleaning of Application Tools

Application tools and equipment should be cleaned immediately with solvent after use. Once **FOX CARBOND® PRIMER** has hardened, it can only be removed mechanically.

Consumption

Approximately 0.20 kg/m² of product should be used.

Watch Points

- FOX CARBOND® PRIMER** should not be applied at temperatures below +5°C or above +30°C.
- Materials to be used should be brought to the application site 1–2 days in advance to acclimatize to ambient conditions.
- In cold weather applications, ambient and substrate temperatures should be increased. To improve workability, packaging should be conditioned at +20°C / +25°C before use.
- Rain, dust, wind, animals, and insects must be prevented from contacting the coating while it is still fresh.
- In resin-based systems, pot life and curing times are affected by ambient temperature, substrate temperature, and air humidity. At low temperatures, curing slows down, extending pot life, overcoating time, and working time.



- **FOX CARBOND®** structural strengthening systems must be applied by qualified and experienced applicators.
- **FOX CARBOND® PRIMER** is supplied in ready-to-use sets. Solvents or thinners must not be added to the mixture during application.
- Prepare only the amount of material that can be used within the working time.
- Mixing must be carried out using suitable mechanical mixers. Manual mixing is not recommended.

Packaging

4 kg set

Component A: 2.73 kg metal bucket

Component B: 1.27 kg metal bucket

Shelf Life

When stored properly in its original unopened packaging at temperatures between +5°C and +30°C, away from direct sunlight, the shelf life is 12 months from the date of production. Opened packages must be tightly sealed and consumed within 1 week.

Storage

It must be stored in its unopened original packaging, in a cool, dry place protected from frost, humidity, and any contact with water. For short-term storage, a maximum of three pallets may be stacked on top of each other, and the first-in, first-out (FIFO) principle should be applied during shipment. For long-term storage, pallets must not be stacked.

Safety Precautions

It is dangerous to approach storage and application areas with fire. These areas must be properly ventilated. During application, appropriate work clothing, protective gloves, goggles, and masks must be worn in accordance with occupational health and safety regulations. 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 advice immediately.

Food and beverages must not be brought into application areas. Store out of the reach of children.

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

Disclaimer

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 itself. The company cannot be held liable for any consequences arising from applications or uses other than the written recommendations provided, and/or from improper use. For further details, please refer to the Safety Data Sheet and Technical Data Sheet or contact our authorized representatives.



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