

INNO-FLOOR FOX PROCRETE® TOPCOAT

Two Component, Chemical-Resistant, High Performance Topcoat Coating Resulted from the Modification of Polyurethane Based Resins with Special Additives and Chemicals

Description

FOX PROCRETE® TOPCOAT is a two-component surface protection material obtained by modifying polyurethane-based resins with special additives and chemicals, created by adding special fillers to the resins, designed for use in wet and dry environments, and has excellent chemical, thermal shock and solvent resistance.

Fields of Application

- As a top coat in **FOX PROCRETE®** series floor systems and areas where high chemical resistance is required;
- Food, Chemical and Pharmaceutical industry,
- In areas requiring chemical and mechanical resistance,
- In production areas,
- In packaging areas,
- In wine and beer factories,
- In industrial kitchens,
- In water facilities,
- Laboratories,
- Storage areas.

Technical Features

Density		1,20 g/cm ³
Colour		Red, Yellow, Blue, Orange, Green, L.Grey, D. Grey, Cream
Tensile Strength	Concrete	4,06 N/mm ²
Pendulum Hardness		~167 s
Abrasion Resistance	Taber CS 17,10N,1000 d	~102 mg
Application Surface	Temperature	+8°C / +30°C
Working Time		50 Minutes
First Cure		24 hours
Fully Cures		7 days



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

Advantages

Thermal Resistance

FOX PROCRETE® TOPCOAT does not lose its properties under high temperatures against liquid spills. Repeated thermal shocks and thermal transformations under liquid-steam effects do not cause blistering and peeling.

Volatile Substance and Odour

FOX PROCRETE® TOPCOAT emits very low emissions as a result of VOC emission chamber test; quality management inspection and product control procedures and is suitable for all emission conditions for indoor floor systems. Since it does not contain any volatile components that may affect the health and comfort of the staff, it is an extremely clean product that does not have the risk of smell on food. 12 hours after application, becomes non-stick for food stains.

Chemical Resistance

PROCRETE® TOPCOAT provides outstanding resistance to chemical attacks. It is extremely resistant to a wide spectrum of chemicals, from concentrated inorganic and organic acids to alkalis and solvents. Some of these chemicals are as follows:

(For detailed information, please contact our Technical Service).

- Acids commonly used in Food Industry such as acetic acid, lactic acid, oleic acid, citric acid,
- Hydrochloric, nitric, phosphoric and sulphuric acids,
- Alkali containing 50% Concentration sodium hydroxide
- Vegetable and animal oils, sweeteners and essences,
- Mineral oils, gas oils, petrol etc. petroleum products,
- Organic solvents containing methanol, xylene and ethers



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Permeability

FOX PROCRETE® TOPCOAT exhibits zero permeability, no surface absorbency.

Cleaning and Hygiene

FOX PROCRETE® TOPCOAT is a hygienic product suitable for steam or hot water cleaning. Thanks to its chemical and monolithic structure, it does not create an environment suitable for bacterial and fungal growth. For this reason, it can be used safely in the food and pharmaceutical industries, where hygiene standards are highest. Regular cleaning and maintenance increase the ground life and ensures a good appearance.

Application Procedure

Substrate Preparation

The floor temperature on which **FOX PROCRETE® TOPCOAT** will be applied must be a minimum of +8°C. In addition, it should be noted that the dew point of the ground must be above +3°C. The substrate should be clean, dry and free from all kinds of dirt, oil, grease, coating and surface curing materials etc.

Application Conditions

- It can be applied on 7-day old concrete or old concrete with high moisture content by using **FOX PROCRETE® PRIMER**.
- Pay attention to dew and condensation!
- Dew and water vapour condensation on the floor that has not been applied or newly coated will damage the coating. To prevent this, the floor temperature must be above +8°C.

Watch Points in Application

Surface Temperature;	Minimum + 8°C, Maximum +30°C
Ambient Temperature;	Minimum +10°C, Maximum +30°C
Material Temperature;	Minimum +15°C, Maximum +25°C

Mixing

Before starting the mixture, ensure that the product temperature is between +15°C and +25°C. Because **FOX PROCRETE® TOPCOAT** is a three-component product, it is important to achieve a homogeneous mixture. Therefore, mixing it with COLLOMIX Xo 55 duo, etc., is highly recommended. Add the Component C product to the A component product and mix for 1 minute until a homogeneous mixture is achieved. Add the B component product to the resulting mixture and mix for a maximum of 3 minutes until a homogeneous mixture is achieved. Avoid overmixing to minimize air entrainment.

Application

FOX PROCRETE® TOPCOAT is applied to the surface with the help of a roller or airless sprayer in previously applied **FOX PROCRETE®** series floor systems. Application thickness should not exceed 120 gr/m² (100 micron) in one layer and should be done in two layers.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with solvent. **FOX PROCRETE® TOPCOAT** can only be removed from the surface mechanically after it hardens.

Coverage

- **Over FOX PROCRETE® MF** system 0,2-0,25 kg/m²,
- **Over FOX PROCRETE® HF** system 0,2-0,25 kg/m²,
- **Over FOX PROCRETE® MC** system 0,4-0,5 kg/m² is applied.

Watch Points

- In application of **FOX PROCRETE® TOPCOAT**, if the ambient and surface temperature is below +10°C or above +30°C, suitable temperatures should be expected. Application should not be made in extremely hot, rainy or windy weather. Materials to be used in the application area should be brought and stored 1-2 days in advance and adapted to the ambient conditions. In applications in extreme cold weather, the ambient and ground temperature should be increased with heaters, and the materials to be used should be conditioned at +20/+25°C and made ready for application.
- Working and reaction times of polyurethane based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures, the reaction slows down, which increases pan (pot) life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly. For the material to complete its curing, the ambient and ground temperature should not fall below the minimum allowed value. After mixing, the material should be rested and then mixed again.



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Package

5 kg set

A component 2,30 kg plastic bin

B component 2,70 kg plastic bin

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, its shelf life is 6 months from the date of manufacture. Opened packages should be consumed within 1 week by closing their mouths.

Storage

It should be stored in its original unopened package, at a temperature of +5°C to +30°C, in a cool and dry environment, away from direct sunlight, 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.

FOX PROCRETE® TOPCOAT A Component freezes below 0°C. Therefore, special attention should be paid to storage conditions.

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, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be introduced into the application areas. It should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer

The information contained in this technical document is based on our current scientific and practical knowledge. Fox Bau Yapi Kimyasalları A.S. is solely responsible for the quality of the product. Our company cannot be held liable for consequences that may arise from improper use and/or without written instructions regarding where and how the product is to be used. For detailed information, please refer to the safety data sheet and technical data sheet or contact our company representatives.



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