

INNO-FLOOR FOX PROCRETE® MC

Obtained By Modification of Polyurethane Based Resins with Special Additives and Chemicals, Three Component, Chemical Resistant, High Performance, Rough Non-Slip Surface Finish Coating for Industrial Floors

Description

FOX PROCRETE® MC is an industrial floor coating system, which is obtained as a result of modification of polyurethane-based resins with special additives and chemicals, three component, created with the addition of special filler to resins, rough- non slip surface, excellent chemical, thermal shock and solvent resistance, rough – non slip surface industrial floor coating system.

Fields of Application

In areas exposed to heavy / medium traffic and chemical load, long-lasting and durable, especially in need of non-slip coating,

- Food, Chemistry and Pharmaceutical industries,
- In areas requiring chemical and mechanical resistance,
- Production areas,
- Packaging areas,
- Wine and beer brevieries,
- Industrial Kitchens,
- Water Plants,
- Laboratories,
- Storage areas.

Technical Features

Density		1,38 g/cm ³
Colour		Red, Yellow, Blue, Orange, Green, Grey, Cream
Compressive Strength	28 days	55 N/mm ²
Breaking Strength	Concrete	>3,60 N/mm ²
Tensile Strength		10 N/mm ²
Bending Strength		22 N/mm ²
Application Thickness		3-6 mm
Thermal Resistance	6mm	-25°C /+80°C
Application Surface Temperature		+8°C /+30°C
Working Time		35-40 minutes
Light Traffic		24 hours
Fully cures		48 hours



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

When **FOX PROCRETE® MC** is applied on **PROCRETE® MF**, does not lose its properties against liquid spills, for 3 mm coating under -5°C/+60°C, for 4 mm coating under -15°C/+70°C, for 6mm coating under -25°C/+120°C. Repeated thermal shocks and thermal transformations under liquid-vapor effects do not cause blistering and peeling in the coating.

Anti-Slip

FOX PROCRETE® MC is used in wet areas where there is a high risk of slipping. It has low slip potential according to EN13036-4 standard, compared to non-slip tests performed on wet ground using 4-S rubber. It creates a non-slip floor even on wet and oil spilled surfaces. **FOX PROCRETE® MC** floor coverings have been formulated to meet this specific requirement with the right shoe selection.

FOX PROCRETE® MC maintains its non-slip properties for many years even under heavy steel wheeled traffic. Optimum non-slip resistance can only be achieved by regular cleaning.



Anti-Slip Test Value	Slip Potential EN13036-4	FOX PROCRETE® MC EN13036-4	Slip Angle DIN51130	FOX PROCRETE® MC DIN51130
	Very Low	55-75	>35° (R13)	R13
36 and above	Low	-	19° -27° (R11)	
25-35	Medium	-	10° -19° (R10)	

Volatile Substance and Odour

FOX PROCRETE® MC 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® MF 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,

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

Permeability

FOX PROCRETE® MC exhibits zero permeability, and no surface absorbency.

Moisture Tolerance

FOX PROCRETE® MC is extremely resistant to moisture. It can be applied on 7 days old concrete or old concrete with high moisture content without using special primers. This applicability provides quick and easy programming in facilities with wet areas. Epoxy floor coatings applied under the same conditions show deterioration.

Cleaning and Hygiene

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

Application Procedure

Surface Quality

FOX PROCRETE® MF concrete substrates to be applied must be strong and have sufficient compressive strength (at least 25 N/mm²), tensile strength must be at least 1.5 N/mm², ground temperature must be minimum +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.

Substrate Preparation

Concrete substrates should be prepared in such a way as to obtain an open porous surface by removing cement grout using abrasive equipment (Shot Blasting, milling, diamond polishing, etc.). Weak concrete pieces should be removed from the surface, small gaps, holes should be made completely open. The resulting dust should be cleaned with the help of an industrial vacuum cleaner. The substrate repairs should be done with the mortar obtained by mixing 60-70 AFS (0,1-0,3mm) quartz sand and FOX PROCRETE® PRIMER for filling the voids and smoothing the surface.

Due to its general structure, **FOX PROCRETE® MF** can pull / stretch in itself. To prevent this, 8-10 mm thick joint should be opened at the edges of the column and the ground (at least 4-5 meters for the floor) and the joint gaps should be cleaned with the help of an industrial vacuum cleaner. These gaps should be filled with **FOX PROCRETE® MC/FOX PROCRETE® MF** after application of **FOX PROCRETE® PRIMER**.



Application Conditions

- It can be applied on 7 days old concrete or old concrete with high moisture content without using special primers.
- 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, make sure that the product temperatures are between +15°C and +25°C. Since **FOX PROCRETE® MC** is 3-component, obtaining a homogeneous mixture is important in terms of no air bubbles and surface defects that may occur after application. For this reason, it is highly recommended to mix with a mixer such as COLLOMIX Xo 55 duo etc. Add the C component product into the A component product and mix for 1 minute until a homogeneous mixture is obtained. Add B component product to the mixture obtained and mix for maximum 3 minutes until a homogeneous mixture is obtained. Avoid over mixing to minimize air entrainment.

Application

Primer

Surfaces to be made with **FOX PROCRETE® MC** must be primed with the help of a suitable trowel with **FOX PROCRETE® MC** or by **FOX PROCRETE® PRIMER** applied with a roller. Attention should be paid to the floor temperature (min +8°C). Application should be done within the time that it can be coated on the primer. If priming with **FOX PROCRETE® PRIMER** will be done, this period is Min.24 – Max.72 hours. In cases exceeding 72 hours, re-priming is required before applying **FOX PROCRETE® MC**. If priming with **FOX PROCRETE® MC** will be applied, the coating time on the primer is minimum 8 hours.

Coating

FOX PROCRETE® MF or **PROCRETE® MC** pour the prepared mixture onto the primed surface. It can be spread in the desired thickness with a comb or a suitable trowel. 40-45 Afs silica sand (0.2-0.5 mm) is sprinkled over the surface (4 kg / m²). In cases where the surface is desired to be more rough, 15-25 Afs silica sand (0.7-1.2 mm) can be used in the same way instead of 40-45 Afs silica sand. 1 day after the application, excess sand is removed with the help of an industrial vacuum cleaner. Non-adhered sands are scraped off the surface by scraping. Then, **FOX PROCRETE® MC** is applied as a topcoat in two coats (0.6-0.8 kg / m²) with the help of a roller or airless sprayer. In order to obtain an uninterrupted and smooth ground, the area to be covered and the planning of the material should be well done. Mixing and spreading team should be formed in order not to wait in between while coating. It is necessary to protect the ground from direct sunlight at high temperatures, wind and air circulation. It should not be applied at temperatures below +5°C.

Cleaning of the Tools

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

Coverage

To obtain 1 mm thickness, 1,38 kg/m² **FOX PROCRETE® MC** mixture should be used.

Watch Points

- In the application of **FOX PROCRETE® MF**, if the ambient and surface temperature is below +8°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 to be carried out 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°C and +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.
- After applying **FOX PROCRETE® MF**, it is necessary to wait at least 1 day before applying another coating.



Package

10 kg set

A Component; 3,10 kg plastic bin

B Component; 2,70 kg plastic bin

C Component; 4,20 kg powder polyethylene reinforced kraft bag

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 on a first-come, first-out basis. In long-term storage, pallets should not be placed on top of each other.

FOX PROCRETE® MC 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.

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