

FOX MULTIDECK SYSTEM

FOX PROCRETE® 8240 MF Medium Traffic 4,0-4,5 mm

Polyurethane Based High Performance Self Leveling Industrial Flooring System

Description

FOX PROCRETE® 8240 MF, three-component, industrial floor coating system with a smooth surface finish, excellent chemical, thermal shock and solvent resistance, created by adding special fillers to resins, obtained as a result of modification of polyurethane-based resins with special additives and chemicals.

Medium Traffic: Pedestrian traffic, often forklift and rarely hard plastic wheeled goods vehicles resistant coating.

Usage Areas

- Food, Chemical and Pharmaceutical Industry
- Production Areas
- Packing Areas
- Wine and Breweries
- Industrial Kitchens
- Water Facilities
- Laboratories
- Storage Areas
- Areas Requiring Chemical and Mechanical Strength

Advantages

Temperature Resistance

FOX PROCRETE® MF, against liquid spills, 3 mm coating -5°C /+60°C, 4 mm coating -15°C /+70°C, 6mm coating -25°C. It does not lose its properties under temperatures between /+80 °C. Continuously repeated thermal shocks and thermal transformations under the effects of liquid-vapor do not cause blistering and peeling of the coating.

Anti-slip

FOX PROCRETE® MF has a moderate slip potential according to the non-slip tests performed on wet surfaces using 4-S rubber, in accordance with EN13036-4 standard. **FOX PROCRETE® MF** floor coverings are formulated to meet this specific requirement, together with the right choice of footwear. Optimum slip resistance can only be achieved with regular cleaning.

Anti-Slip Test Values	Slip Potential EN13036-4	FOX PROCRETE® MF EN13036-4	Slip Angle DIN51130	FOX PROCRETE® MF DIN51130
36 and above	Low	-	19°-27° (R11)	
25-35	Medium	35	10°-19° (R10)	R10
24 and below	High	-	6°-10° (R9)	

Volatile Matter and Odor

FOX PROCRETE® MF gives very low emissions as a result of VOC emission chamber testing, quality management inspection and product control procedures and complies with all emission requirements for indoor flooring systems. Since it does not contain any volatile components that may affect the health and comfort of the personnel, it is an extremely clean product that does not have the risk of leaving odors on foodstuffs. After 12 hours of application, it becomes food stain resistant.

Impact and Abrasion Resistance

FOX PROCRETE® MF has high mechanical properties thanks to its low modulus of elasticity and is highly durable even under point impact. It provides high mechanical strength against heavy loads. It does not break off the coating, does not create cracks, does not scratch and does not crumble by crushing. It provides extremely high abrasion resistance for floors under heavy static and dynamic loads where forklifts are transported and transport vehicles are running.



Chemical Resistance

FOX PROCRETE® MF provides exceptional resistance to chemical attack. It is highly resistant to a broad spectrum of chemicals, from concentrated inorganic and organic acids to alkalis and solvents.

Permeability

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

Humidity Tolerance

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

Cleaning and Hygiene

FOX PROCRETE® MF is a hygienic product. Thanks to its chemical and monolithic structure, it does not create an environment suitable for bacterial and fungal growth. For this reason, it is used safely in the food and pharmaceutical industries where hygiene standards are the highest. Regular cleaning and maintenance increases the life of the floor and ensures that the good appearance continues.

System Technical Data

Color		Red, Yellow, Blue, Orange, Green, Grey, Cream
Shear Strength By Breaking The Concrete		>3,60 N/mm ²
Application Surface Temperature		+8°C /+30°C
Compressive Strength	28 days	55 N/mm ²
Tensile Strength		10 N/mm ²
Flexural Strength		22 N/mm ²
Temperature Resistance	6 mm	-25°C /+80°C

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

Watch Points

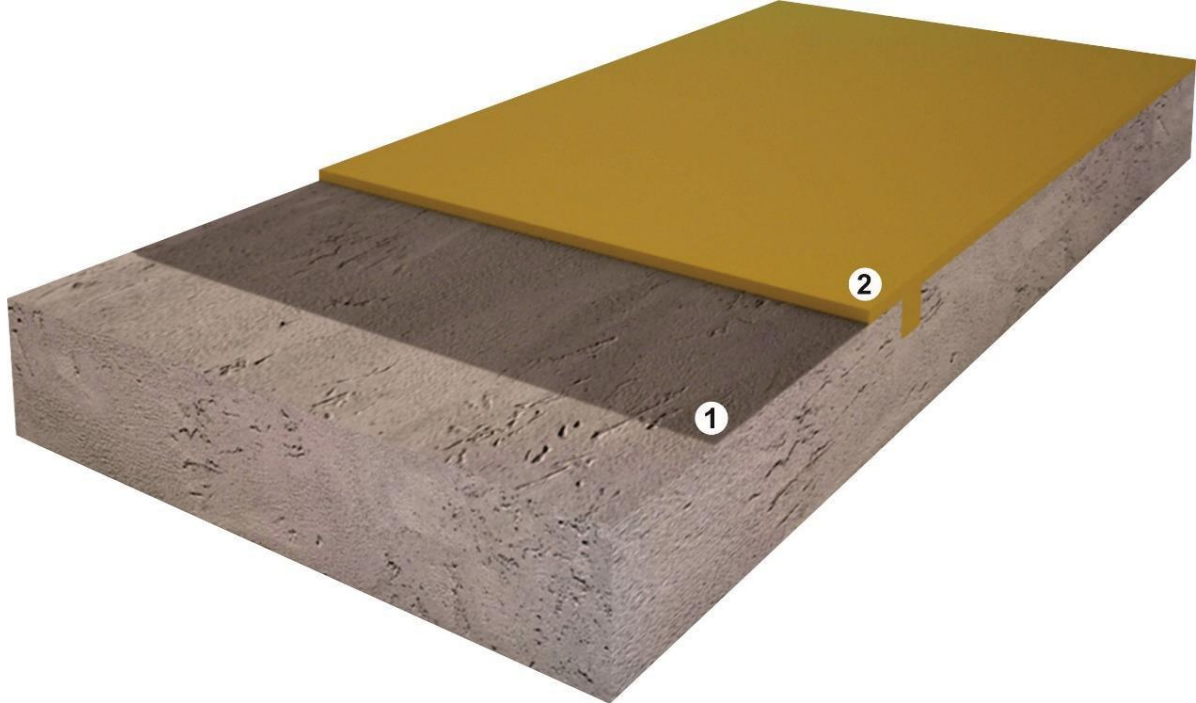
- Concrete surfaces to be covered must be at least 28 days old. Concrete class must be at least C20 and breaking strength must be at least 1.5 N/mm².
- The water and moisture content in 2 cm concrete depth should be below 4%. Test method: C - Aquameter, CM-Device, Darr Method
- In the application, the ambient and surface temperature should be around +10°C minimum and +30°C maximum. It should not be applied in extremely hot, rainy or windy weather.
- In applications to be carried out in extremely cold weather, the ambient and floor temperature should be increased with the help of heaters, and the packages should be conditioned at approximately 25°C to make them ready for use in order to increase the workability of the material.
- The materials to be used are brought to approximately 20-25°C in case the ambient temperature is very high or low and applied in the field in that way.
- When the coating is fresh, it should be protected from water, rain, dust, wind and foreign objects.
- Pot life and curing times in resin based systems are affected by ambient temperature, floor temperature and humidity in the air. Curing slows down at low temperatures, which extends pot life, cover time and working time. Curing is accelerated at higher temperatures, which shortens pot life, cover time and working time. During the curing of the product, care should be taken to keep the ambient and ground temperature within the minimum and maximum temperature levels given. After the application is completed, the coating should be protected from direct water contact for at least 24 hours. If there is water contact, the coating will soften, blister, mist and discolor. This causes the coating to lose its properties. In this case, the coating on the damaged part should be completely removed and redone.
- Coverages are given for conditions where the ambient and surface temperature is +20°C. Actual coverage may vary depending on the surface structure and ambient temperature. It should not be forgotten that coverage will increase in uneven surfaces and cold weather conditions.



Chemical Resistance Table

Acetaldehyde	+	Caprolactam	+	Isopropanol	+	Oleic Acid	+
Acetic acid	+	Carbon Disulfide	+ -	Lactic Acid	+	Oleum	+ -
Acetone	+ -	Carbon Tetrachloride	+ -	Maleic Acid	+	Paraffin	+ -
Ammonium Hydroxide	+	Chloroacetic Acid	+	Maleic Anhydride	+	Phenol	+ -
Beer	+	Chloroform	+ -	Methanol	+	Phosphoric acid	+
Benzen	+ -	Chromic Acid	+	Milk	+	Picric Acid	+
Benzoic Asid	+	Citric acid	+	Mineral Oils	+	Propylene glycol	+
Sodium Sulphate	+	Petroleum	+	Engine Oil	+	Potassium Hydroxide	+
Butanol	+	cyclohexane	+	Gasoline	+	Sodium hydroxide	+
Calcium chloride	+	Decanoic Acid	+	Nitric Acid	+	'N-Dimethyl Acetamide'	-

Color change may occur with the effect of chemicals. This research was carried out at room temperature. High temperatures and/or mixtures of chemicals can affect chemical resistance. (+) It is recommended to use. (+-) Usage Conditionally recommended. There may be discoloration, it should be cleaned within 1 hour. (-) It is not recommended to use.



Polyurethane Cement Based High Performance Self Leveling Flooring System / Medium Traffic

Layer		Product Name	Description	Coverage kg/m ²
1	Primer	FOX PROCRETE® PRIMER	Solvent-free, three-component primer set with high chemical resistance, obtained as a result of modification of polyurethane-based resins with special additives and chemicals.	0,3 - 0,5
2	Coating	FOX PROCRETE® MF	It is a three-component, smooth surface finish, excellent chemical, thermal shock and solvent resistance, applied in 3-6 mm thickness, obtained as a result of modification of polyurethane-based resins with special additives and chemicals.	7,0 - 7,5

Primer and coverage in the systems are given as a foresight. According to the ground condition and ambient conditions; primer and coverages may vary.

Application Procedure

Surface Preparation:

Concrete substrates on which the floor covering will be made should be prepared using abrasive equipment (shot blasting, milling, diamond grinding) to remove the cement slurry and obtain an open porous surface. Weak concrete pieces should be removed from the surface, small gaps and hole should be made completely open. The resulting dust should be cleaned with the help of industrial vacuum cleaner. The gaps, cracks and broken concrete on the sub-surface should be filled and surface smoothness should be entered ensured. For surface repairs, filling gaps and smoothing the surface, 60-70 AFS (0.1-0.3MM) quartz sand should be mixed with **FOX PROCRETE® PRIMER** depending on the condition of area to be repaired. **FOX PROCRETE® MF** can tensile/stretch within itself due to its general structure. To prevent this, 8-10 mm thick joints should be opened on the column edges and on the floor (at least every 4-5 meters for the floor) and the joint haps should be cleaned with the help of an industrial vacuum cleaner. These gaps should be filled with **FOX PROCRETE® MF** after the application of **FOX PROCRETE® PRIMER**.

Primer Application

Product Description

PROCRETE® PRIMER is a solvent-free, three-component primer specially designed for industrial floors, obtained as a result of modification of polyurethane-based resins with special additives and chemicals.

Application

Since **FOX PROCRETE® PRIMER** has three components, it is important to obtain a homogeneous mixture. For this reason, **COLLOMIX CX 22**, Mixing with a mixer is highly recommended. A component **FOX PROCRETE® PRIMER** is put into a polyethylene mixing bucket. After adding the B component product to the A component product completely, mix for 1 minute until a homogeneous mixture is obtained. After adding the C component product to the A+B component mixture completely, mix for 3 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment.

Prepared **FOX PROCRETE® PRIMER** is applied to the surface with a coverage of **300-500 gr/m²** with a roller, trowel or zero-tipped trowel. Make sure that the application is made on the entire surface without gaps.

Procrete Coating

Product Description

FOX PROCRETE® MF, three-component, obtained as a result of modification of polyurethane-based resins with special additives and chemicals. It is an industrial floor coating system with a smooth surface finish, excellent chemical, thermal shock and solvent resistance, and applied in 3-6 mm thickness, created by adding special fillers to resins.



Application

Since **FOX PROCRETE® MF** has 3 components, it is important to obtain a homogeneous mixture and to avoid air bubbles and surface defects after the application. For this reason, COLLOMIX XM 2 etc. Mixing with a mixer is highly recommended. After the A and B components are completely added to the **FOX PROCRETE® MF** Collomix XM 2 mixer, the C component powder is added onto the A+B component. It is mixed for a maximum of 3 minutes until a homogeneous mixture is obtained. Prepared **FOX PROCRETE® MF** is poured onto the surface with a consumption of **7.0-7.5 kg/m²** and is applied smoothly with a notched trowel. In order to obtain an uninterrupted and smooth floor, the planning of the area and material to be covered should be done well. When the coating reaches the appropriate consistency, a spiked roller should be applied and its air should be removed. Hedgehog roller traces may remain on the surface in case of being late for the spiked roller application.

Opening Time of the Coating

The **PROCRETE® 8240 MF** system becomes walkable after 24 hours after application (at 25°C). However, it reaches its final mechanical and chemical resistance after 7 days. Lower temperatures extend these times.

Cleaning of Tools

Regular cleaning and maintenance prolongs the life of the floor and reduces its tendency to get dirty. Polyurethane concrete floor coverings; It is recommended to clean with neutral detergents or alkalis diluted in water at a concentration of 5-10%. Please contact our technical sales representatives for cleaning, care products and maintenance.

Security precautions

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, the Material Safety Data Sheet should be consulted.

Note

The coverages for the system given above have been created by considering the ideal weather, environment and ground conditions. Changes in ambient and ground conditions can lead to changes in consumption and system solution. Therefore, before the system solution, SARTECH Yapı Malzemeleri San. Tic. Ltd. Şti. and place should be found by expert staff and/or Expert Practitioner Dealers, and then system solution should be sought.

