

INNO-FLOOR FOX ROCKTOP FF100

Cement and Acrylic Based, Two Component, Self Levelling, Steel fiber reinforced / Fibered, High Performance Floor Coating

Description

FOX ROCKTOP FF100 is a high strength and flexible industrial floor coating with cement and acrylic combination, steel fiber / fiber reinforced, two-component, can be applied between 4-8 mm.

Fields of Application

- Schools and hospitals,
- Factories and depots,
- Shopping malls,
- Car parks interior and exterior,
- Gas stations,
- Balconies and terraces,
- It is used for surface correction and reinforcement on all worn and deteriorated surfaces..

Advantages

- No primer needed.
- Provides excellent strength with a maximum thickness of 8 mm.
- It is the fastest and easiest solution in working facilities.
- Does not shrink.
- Good adherence on application surface.
- Adapts to ground stresses arising from temperature differences and is not affected.
- Dust-free, durable and long-lasting.
- Resistant to mechanical loads.
- Resistant to freeze and thaw effects.
- High abrasion resistance.

Technical Features

Structure of the Material	A Component	Special cement, steel fiber/fiber, mineral fillings
	B Component	Copolymer acrylic dispersion
Density		2,00 kg/litre
Colour		Grey
Compressive Strength	7 days	13 N/mm ²
	28 days	23,0 N/mm ²
Bending Strength	28 days	8,8 N/mm ²
Tensile Strength	28 days	2,0 N/mm ²
Abrasion Strength	DIN 53754	CS 17 disk (weight loss) 245 mg
Taber 1 kg 1000 rev		H22 disk (weight loss) 301 mg
Woking Time		30 dk.
Cures in		28 days
Application Thickness		Max. 8 mm

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

Surface Quality

Concrete substrates to be applied must have a strong and sufficient compressive strength (at least 25 N / mm²), tensile strength at least 1.5 N/mm², humidity should be maximum 4%, ground temperature 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.

Application Procedure

Substrate Preparation

Concrete substrates to be applied should be prepared in a way to obtain an open porous surface by removing cement grout by 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. **FOX INNO-CRETE** repair mortars should be used for substrate repairs, filling gaps and smoothing the surface.

Application Conditions

- Surface moisture content should be below 4%.
- There should be no rising humidity according to ASTM. (Polyethylene cover test).
- Relative air humidity should be 80% maximum.
- 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 + 3°C.

Watch Points in Application

Surface Temperature	; Minimum +8°C - Maximum +30°C
Ambient Temperature	; Minimum +10°C - Maximum +30°C
Material Temperature	; Minimum +10°C - Maximum +30°C

Mixing

Pour **FOX ROCKTOP FF100** B component into a clean mixing bucket. Slowly add component A to component B and mix for 3-4 minutes until you get a homogeneous mixture with the electric mixer and the appropriate mixing tip. The steel fibers in the powder component should not be allowed to lump at the bottom of the bucket and these lumps should be distributed. After waiting for about 2 minutes, mix for another 1 minute and make it ready for use.

Mixing Tools: (400-600 rpm) electric mixer and epoxy / polyurethane resin mixing tip.

Application

Primer

FOX ROCKTOP FF100 mixture is poured on the surface and applied to the floor with a hard brush.

Coating

The prepared mixture is poured on the surface and spread on the floor with a height-adjustable trowel. If the surface is primed, this should be done before the primer dries. Spiked roller should be applied in order to eliminate the air bubbles that will occur after a while. If the Spiked roller application is late, roller marks may remain on the surface. Therefore, it is necessary to complete the application process quickly. Uniform application is recommended to obtain a smooth surface.

Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with water. **FOX ROCKTOP FF100** can only be removed from the surface mechanically after it hardens.

Coverage

To obtain 1 mm thickness, 1,94 kg/m² **FOX ROCKTOP FF100** mixture should be used.

Watch Points

If the ambient and surface temperature is below +5°C or above +25°C in practice, suitable temperatures should be expected. Also, application should not be done in extremely hot, rainy or windy weather. In applications to be done at suitable temperatures, the materials to be used should be brought and stored in the application area 1 - 2 days in advance and it should be ensured that they adapt to the environmental conditions. In applications to be carried out in extreme cold weather, the ambient and floor temperature should be increased with the help of heaters, and the packages should be conditioned at +20 - + 25°C to increase the processability of the material. **FOX ROCKTOP FF100** should not be applied on frozen surfaces when the temperature is below +10°C or expected to fall below +10°C within 8 hours of application. Applications should be done by expert applicators. Working and reaction times of cement based systems are affected by the ambient and ground temperature and relative humidity in the air. Hydration slows down at low temperatures, which increases pot life

and working time. High temperatures accelerate hydration and the times mentioned above are shortened accordingly. For the material to complete its cure, the ambient and ground temperature must not fall below the minimum allowed value. **FOX ROCKTOP FF100** is an industrial coating. Depending on the properties of the concrete structure to be applied, colour differences can be observed on the **FOX ROCKTOP FF100** surface. This does not affect the mechanical properties of the coating. Under normal drying conditions, the coating can be opened to pedestrian traffic after 2 days. It is beneficial to wait 7 days in places to be used in heavy traffic conditions. The material should be protected from excessive wind and direct sunlight during drying. If these conditions arise, after the material begins to dry from the surface, it is covered with dry sand. This will protect the material. After 2 days, this sand is removed from the surface by sweeping.

Package

31,5 kg set

A Component; 25,00 kg Polyethylene reinforced kraft bag

B Component; 6,50 kg Plastic bin

Shelf Life

It is 12 months from the production date under suitable storage conditions. Opened packages should be consumed within 1 week by closing their mouths.

Storage

It should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 2 pallets should be placed on top of each other and shipment should be made with the first in, first out basis. 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, 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 brought to 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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