

INNO-FLOOR FOX Beton & Bodenfarbe FF920

Water-based, Ready-to-use, Concrete and Floor Paint

Description

FOX BETON & BODENFARBE FF920 is a single-component, water-based acrylic-based, resistant to abrasion, resistant to tire marks, multi-purpose, ready-to-use concrete and floor paint.

Fields of Application

- Concrete and screed surfaces,
- Garage floors,
- Pantries, storage rooms,
- Used in indoor and outdoor areas.

Advantages

- UV resistant.
- Provides excellent adhesion.
- High abrasion resistance.
- Highly resistant to hot tire marks.
- Fast drying.

Technical Properties

Color	RAL7001/RAL7016/RAL7035/RAL9010 and RAL colors
Appearance	Matte
Density	1.20±0.05 gr/cm ³
Viscosity (25°C)	~1200 mPa.s
Intercoat Drying Time	min.2 hours max.48 hours
Curing Time	~60 min
Opening for Pedestrian Traffic	1 day
Full Curing Time	7 days
Thinning	Not Thinning



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

Chemical Resistance (Application thickness: 2 coats x 150 µm)

Chemical Name	Test Duration	Test Result**
Ethanol (%48)	1 hour	3
NH ₄ OH (%1)	1 min	4
Deionized Water	16 hours	4
Coffee (%4)	16 hours	3
Red Wine	16 hours	4
Oil Acid*	1 hour 16 hours	5 5

Tested according to EN 121720.

* The fatty acid test simulates the coating's resistance to human hand oil or hand lotions.

** 5= Best / 0= Worst

Test Result

Test Name	Test Conditions	Test Result ** (after 3 days at 50°C)
Hot Tire Resistance	Fox Bau Internal Test Method	4

**5= Best / 0= Worst



Substrate Preparation

Concrete sub-surfaces to be treated must be prepared using abrasive equipment (shot blasting, milling, diamond grinding, etc.) to remove the cement paste and obtain an open-pored surface. Weak concrete fragments must be removed from the surface, and small voids and holes must be completely opened up. The resulting dust should be cleaned using an industrial vacuum cleaner. Voids, cracks, and broken concrete on the substrate should be filled, and surface smoothness should be ensured. Surface repairs, void filling, and surface leveling are performed using **FOX FASTMORTAR FC245** or **FOX FASTMORTAR FC233**.

Application Conditions

- When applying to newly poured concrete, the concrete must have completed at least 28 days of curing.
- The surface moisture content must be below 4%.
- There should be no rising moisture according to ASTM. (Polyethylene cover test).
- Relative air humidity must be a maximum of 80%.
- Beware of dew formation and condensation!
- Dew formation and water vapor condensation on untreated or newly coated surfaces can damage the coating. To prevent this, the surface temperature must be above +3°C.

Watch Points

Surface Temperature ; Minimum +5°C - Maximum +30°C
Ambient Temperature ; Minimum +5°C - Maximum +30°C
Material Temperature ; Minimum +5°C - Maximum +30°C

Mixing

FOX BETON & BODENFARBE FF920 is ready to use as it is a single-component product. It must be mixed internally before use due to its pigment and filler content.

Mixing tools: Mix with an electric mixer (300-400 rpm).

Application

Priming

Before applying **FOX BETON&BODENFARBE FF920**, the surface must be primed with **FOX EPOTHANE PRIMER WB COLORED**. After 24 hours, **FOX BETON & BODENFARBE FF920** can be applied. The primer must be completely dry and have sufficient adhesion to the substrate. If in doubt, check adhesion using a grid scratch test. The waiting periods between priming and applying **FOX BETON & BODENFARBE FF920** must be a minimum of 16 hours and a maximum of 48 hours. If these periods are not adhered to, the primer surface must be sanded with 120-grit sandpaper and reapplied.

Coating

FOX BETON & BODENFARBE FF920 should be applied to the surface using a roller. To minimize roller marks, it is essential to ensure that successive layers are wet. Application should be carried out along the short edge, and each new application should be made immediately adjacent to the previous one. A second roller should be used to go over the material again to ensure even distribution and no roller marks. The application between layers should be done at least 2 hours later, depending on the ambient temperature. For optimal performance, at least 2 coats should be applied. The number of coats should be increased depending on the absorbency of the surface.

Application Over Old Coating

The surface to be coated must be sanded with 120 grit sandpaper. Then, the surface must be primed with **FOX EPOTHANE PRIMER WB COLORED**. After 24 hours, **FOX BETON & BODENFARBE FF920** can be applied.

Cleaning of Tools

The tools and equipment used after application can be cleaned with water. **FOX BETON & BODENFARBE FF920** can only be removed from the surface by mechanical means after it has hardened.

Consumption

~250 gr/m² (2 layers)



Watch Points

- Concrete surfaces must be at least 3 weeks old before application, a vapor barrier must be created on floors resting on soil, and the ambient and surface temperature must be between +5°C and +30°C.
- The materials to be used must be brought to the application site 1-2 days in advance and must be adapted to the ambient conditions.
- In cold weather applications, the ambient and floor temperatures must be increased, and the packaging must be kept at +20°C - 25°C to increase the workability of the products and make them ready for use.
- Rain, dust, wind, animals, and pests must be prevented from entering the building while the coating is fresh.
- In acrylic-based systems, the coating lifespan and curing times are affected by ambient temperature, substrate temperature, and humidity in the air. At low temperatures, curing slows down, which extends the coating life, the time it takes to apply the coating, and the working time. At high temperatures, curing accelerates, which shortens the coating life, the time it takes to apply the coating, and the working time. To ensure that the entire product cures completely, the ambient and substrate temperatures must not drop below the specified minimum temperature levels. After application, the coating must be protected from direct water contact for at least 24 hours. If water contact occurs, softening and blistering will occur on the coating, causing it to lose its properties. Therefore, the coating must be completely removed and reapplied.
- Consumption rates are provided for ideal conditions where the ambient and surface temperatures are assumed to be 20°C. Actual consumption rates may vary depending on the surface structure and ambient temperature. It should be noted that consumption rates will increase on damaged surfaces and in cold weather conditions.

Package

5 kg bucket
20 kg bucket

Shelf Life

When stored correctly at room temperature, away from direct sunlight, between +5°C and +30°C, the shelf life is 12 months from the date of manufacture.

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from freezing. For short-term storage, no more than 3 pallets should be stacked on top of each other, and shipments should be made using the first-in, first-out system. For long-term storage, pallets should not be stacked 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.

Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. Our company cannot be held responsible for the consequences that may occur due to misuse and/or other than the written suggestions about where and how the product will be used. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.

