

# INNO-FLOOR FOX HARDTOP® FF300 PRESS CONCRETE

## Quartz Aggregated Powder Surface Hardener Developed For Press Concrete Application Surfaces

### Description

**FOX HARDTOP® FF300 PRESS CONCRETE** is a one-component, coloured, ready-to-use surface hardener consisting of cement, specially selected quartz aggregates, pigments and additives, sprinkled in fresh powder on concrete and screed surfaces.

### Fields of Application

- Interiors and exteriors,
- Depots and hangars,
- Garages,
- Public Squares,
- Ways,
- Touristic facilities,
- Parks,
- Marina and docks,
- Gas Stations,
- Open and closed car parks,
- Shopping malls and public areas,
- Used in areas where press concrete is applied, such as garden arrangements and interior spaces.

### Advantages

- Easy to apply.
- The treated surface is 2 - 4 times more durable than the normal concrete surface.
- Thanks to its modified polymers, it absorbs the water of the floor concrete it is applied on and forms a monolithic structure with concrete after finishing.
- Prevents dusting.
- Available in colours.
- Easy to clean compared to normal concrete.
- Resistant to freeze-thaw effects.

### Technical Features

Structure of the Material	Special cement, Modified Polymer, pigment and quartz aggregate
Colour	Natural Grey, Green, Red, Grey, Special Colour
Compressive Strength 28 days	80 N/mm <sup>2</sup>
Abrasion Resistance EN ISO 5470-1 / Taber	1 kg 1000 dev. / H22 disc (weight loss) / 69 mg
Application Surface Temperature	+5°C / +30°C
Service Temperature	-20°C / +80°C

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

### Application Procedure

#### Surface Quality

The compressive strength of the concrete to be applied must be at least 25 N/mm<sup>2</sup> (C 25). For best results, concrete slump values should be between 75 and 100 mm. The concrete should contain sufficient cement (300 - 350 kg/m<sup>3</sup>) and the floor thickness should be at least 15 cm. Air entrained concretes are not suitable surfaces for applying surface hardener.

#### Primer

In monolithic screed applications, **FOX BINDER FM125** should be applied as a primer on the roughened concrete surface before proceeding with casting to ensure adherence between old concrete and screed. In floating screed applications, polyethylene cover should be laid on the old concrete and the screed concrete to be poured should not be adhered to the old concrete.



### Concrete Setting

In accordance with the project, moulds should be placed according to the specified areas. Before proceeding with concrete casting, **FOX HARDTOP® FF300 PRESS CONCRETE** bags should be lined up against the anode edges in accordance with the consumption stipulated in the project. The thickness of the screeds on which **FOX HARDTOP® FF300 PRESS CONCRETE** will be applied should be above 7 cm, the water / cement ratio should be above 0.45 and the concrete class should be at least C25. Concrete should be compacted by using vibratory screed while casting concrete between the anodes. Necessary corrections should be made by using a control gauge and a wooden trowel before water gets on the concrete surface. Water on the concrete surface should be removed by sweeping with a long-arm wooden screed.

### Surface Hardener Application

The amount of **FOX HARDTOP® FF300 PRESS CONCRETE** to be used in the anode to be applied should be set aside. Before sprinkling application, approximately 5 x 5 cm of triangular concrete must be removed with a trowel along the joint at the edges of the anode. **FOX HARDTOP® FF300 PRESS CONCRETE**, which has been mortared with little water, should be applied with a trowel instead of concrete. This will prevent the joint edges from breaking under load. **FOX HARDTOP® FF300 PRESS CONCRETE** should not be spread over long distances while it is applied in order to prevent the aggregates in it from decomposing. The spreading process should be started when the concrete is hard enough to leave a footprint of 0.75 - 1.0 cm when stepped on concrete according to the ambient and weather conditions.

The material should not be poured onto the anode as a heap, it should be sprinkled as homogeneously as possible and corrected with a check rust. At the first stage, 2/3 of the total consumption should be sprinkled on the concrete surface, spread with a check rust or spread with the help of a machine. The spreading material should be expected to moisten (change colour) by taking the water of the concrete and the surface hardener should be integrated with the concrete by making enough disc finishing (helicopter finishing). Then the remaining material should be spread on the concrete surface as in the first application and the same processes should be repeated. While disc finishing, the surface material overflowing the previously poured anode should be continuously cleaned with a spatula. Otherwise, there will be elevation difference and bad joint appearance between the two anodes. After rough finishing, fine finishing should be started. Fine finishing is a finishing made with a knife. Blade finishing should be done until the desired gloss is achieved.

After the surface hardener application is finished, curing material should be applied to the surface in order to prevent shrinkage cracks and ensure dustiness. Thus, the **FOX HARDTOP® FF300 PRESS CONCRETE** provides the desired maximum performance. Curing should be done in summer and winter. For suitable curing materials, SARTECH Yapı Malzemeleri San. ve Tic. Tld. Şti, Technical Service should be consulted.

After the concrete has hardened sufficiently, the joints of the anodes should be cut at least 4 mm wide and joints should be formed. Joints created should be filled with PU sealants in order to prevent adversities such as breakage and dusting caused by joints. Surface hardener application is done with timing that changes according to the quality and type of concrete to be applied, weather and ambient conditions. Application speed increases in hot weather, application speed decreases in cold weather. While applying, attention should be paid to the socket stages of the concrete.

### Cleaning of the Tools

After the application, the tools and equipment used should be cleaned with water. **FOX HARDTOP® FF300 PRESS CONCRETE** can only be removed from the surface mechanically after it hardens.

### Package

25 Kg Polyethylene reinforced kraft bag

### Coverage

Depending on the purpose of use and traffic load, consumption is 4-8 kg/m<sup>2</sup>. It should not be used less than 7 kg/m<sup>2</sup> in light colour applications.

### Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, its shelf life is 12 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 package, in a cool and dry place 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 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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