

INNO-FLOOR FOX HARDTOP® CS FF830

Colloidal Silica Based, moisturizing agent material that provides fast and easy surface finish in Fresh Concrete

Description

FOX HARDTOP® CS FF830 , Colloidal silica-based, plasticizer and moisturizing agent that is applied by spraying to the surface, providing fast and easy surface finish in fresh concrete.

Colloidal silica lubricates and fluidizes the concrete surface, making it easy to process. It prevents rapid drying of the concrete surface in high temperature, wind and low humidity environment. It is used to prevent cracking due to low surface moisture in surface hardener applications. Colloidal silica increases surface density and performance by reacting with free lime during concrete hydration.

Usage Areas

It is used in the following areas of use on Fresh Concrete Floors;

- Shopping malls,
- Supermarkets,
- Parking lots,
- Airport Hangars,
- Warehouses,
- Distribution Centers,
- Production Facilities,
- Schools and Universities,
- Hospital and Pharmaceutical Industry
- Offices,
- Factories

Advantages

- It has high colloidal silica content.
- 100% of solid matter is active substance.
- It provides dustproofing.
- It provides easy and fast finishing of the concrete surface.
- It ensures that the concrete is minimally affected by external factors such as heat, cold and wind.
- Increases the surface strength of concrete.
- It increases the abrasion and impact resistance of concrete.
- It keeps the moisture in the concrete during curing.
- It prevents rapid water loss of concrete.
- It can be applied to fresh concrete.
- It has excellent penetration.
- Increases impact and abrasion resistance.
- It prevents ASR (Alkaline Silica) reactions that cause superficial cracks.
- It has resistance to stain and water.
- It has a very fast application feature.
- It reduces the surface permeability.
- It is environmentally friendly, suitable for LEED and BREEAM standards.

Technical Data

Density	1,3 gr/cm ³
Color	Opaque White-Transparent
pH	9,0-9,5
Application Surface Temperature	+5°C / +35°C

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

Surface Quality

Substrates to be applied must be sound, clean, dry and free of all kinds of dirt, oil, grease, coating and surface curing materials. The floor temperature should be 5°C and above.



Application Procedure

Surface Preparation

Substrates to be applied must be sound, clean, dry and free of all kinds of dirt, oil, grease, coating and surface curing materials.

Application Conditions

- The application surface, material and ambient temperature should be between +5°C and 35°C.
- The temperature must be above 5°C for at least 4 hours after the application.
- In hot conditions it may be necessary to spray water on the hot concrete to cool the surface prior to application.

Protect from contact with metal, glass, wood, paint or brick. If these surfaces have been accidentally exposed to application, the surface should be washed with clean water immediately.

Mixing

FOX HARDTOP® CS FF830 , It is a one-component concentrated product, 4 units of water are added to 1 unit of **FOX HARDTOP® CS FF830** and mixed until a homogeneous mixture is obtained.

Application

FOX HARDTOP® CS FF830 It can be applied to newly poured concrete surfaces, no preliminary preparation is required.

The first coat is applied to increase the compressive strength of the surface and to facilitate the application. After the concrete is brought to its level with the help of a gauge, it is sprayed onto the surface by spraying method for easier processing and compaction. Afterwards, the concrete is compacted with the help of a trowel. In order to prevent rapid water loss when the concrete can be climbed on, the 2nd layer is applied and the surface is polished and the concrete is allowed to penetrate into it.

Cleaning of Application Tools

Tools and equipment used after the application should be cleaned with water. After **FOX HARDTOP® CS FF830** hardens, it can only be removed from the surface by mechanical methods.

Coverage

In fresh concrete approximately 45-75 gr/m² (for 2 layers)

Watch Points

- The materials to be used must be brought to the application area 1 - 2 days in advance and must adapt to the ambient conditions.
- Rain, dust, wind, animals and insects should be prevented from entering the building when the coating is fresh.
- After the application is completed, the coating should be protected from direct water contact for at least 72 hours. If there is water contact, there will be softening and swelling on the coating, which will cause the coating to lose its properties. Therefore, the coating must be completely removed and redone.
- Consumptions are given for ideal conditions where the ambient and surface temperature is 20°C. Actual consumption may vary depending on the surface structure and ambient temperature. It should not be forgotten that consumption will increase in uneven surfaces and cold weather conditions.

Package

30 kg/bin

Shelf-Life

Shelf life is 12 months from the date of production when stored properly at room temperature, away from direct sunlight between +5°C and +35°C.

Storage

It should be stored in its unopened original package, in a cool and dry environment, away from direct sunlight and protected from frost. In short-term storage, maximum 2 pallets should be placed on top of each other and shipment should be made with a first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.



Safety Precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, glasses and masks in accordance with the rules of work and worker health 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 soap and water. 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.

Disclaimer

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