

INNO-MIX FOX SEALPLUS FM 502

Crystalline Capillary Impermeability Additive that Reduces Water Permeability and Used as Liquid.

DESCRIPTION

FOX SEALPLUS FM 502 is a liquid crystalline capillary impermeability admixture which forms an insoluble crystalline structure in concrete pores and capillary cavities by reacting with the by-products resulting from water and cement hydration in fresh concrete due to the active chemicals. Thanks to this crystal structure, the water permeability of concrete decreases. **FOX Sealplus FM 502** is capable of self-healing and repairing cracks below 0.4mm in concrete.

FIELDS OF APPLICATION

- Foundations and basements
- Sewage and water treatment plants
- Dams, canals, tunnels and harbors
- Water reserves
- In concrete pipes
- Multi-story car parks
- In swimming pools
- Retaining walls and wave breakers

ADVANTAGES

- It is added during mixing.
- Reduces permeability of concrete.
- It is not toxic.
- It penetrates in the internal structure of concrete.
- Reduces the passage of water and other liquids.
- Can repair capillary cracks up to 0.4mm.
- Resistant to positive and negative hydrostatic pressure.
- Provides protection against sewage and industrial wastes.

CONSUMPTION AND DOSAGE

FOX SEALPLUS FM 502 can be used in 1-2.5% of the used cement weight. The most recommended dose for most applications is 2% of the weight of cement. Typical usage rate is 6-7kg for 1 m³ concrete.

The above-mentioned dosage rates are for normal use; does not mean that there are absolute limits. Other dosage rates may be adjusted according to specific conditions of use. If necessary, consult the technical service department of **FOX BAU C & C SARTECH** Yapı Malzemeleri Ltd. Şti.

The results of the trial mixes must be taken into account to ensure optimum dosing and effect.

Caution should be considered when producing low-impervious concrete;

- Make sure the water / cement ratio is less than 0.5
- It is recommended to use a concrete admixture from **FOX Adment PC FM 301** or **FOX Adment FM 777** series to ensure minimum water / cement ratio
- Pour concrete quickly and tighten well
- Ensure complete curing with **FOX Acure FR 570** curing component
- In order to minimize the risk of impermeability, it is recommended to use waterproofing products such as **FOX MULTİPLUS® DUALGUM REACTİVE** outside the concrete.

PERFORMANCE CHARACTERISTICS

Permeability

FOX SEALPLUS FM 502, is a cement based crystalline concrete admixture that forms the water impermeability additive in the concrete, reacts in the concrete and forms hydration products in water insoluble crystal form in the capillary pore spaces of concrete. Thanks to the crystal structure formed, gaps resulting from porosity in the concrete and the absorption by capillary cracks will be reduced.

CURING PERIOD

FOX SEALPLUS FM 502, our product does not have much effect on the setting time of concrete. However, if other additives are added, it must be tested in advance.

APPLICATION RULES

FOX SEALPLUS FM 502 should be dosed in concrete production plants as well as in cement and other cement equivalent products. It can be used by adding to trans-mixer. After the addition of the additive material, it should be ensured that full mixing is carried out at fast speed for 5 minutes.

COMPATIBILITY

In compliance with the TS EN 480-12 ve TS EN 934+A1 standard.

PACKAGE

20 kg bin

TECHNICAL FEATURES

Density	1,12 kg/lit
Color	Transparent
Chlorine Ion Content EN 480-10	< 0,1
Solids by Percentage	% 10
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 prolong the time.

SHELF LIFE

When stored correctly at room temperature, away from direct sunlight, between + 5oC and + 30oC, the shelf life is 12 months from the production date. The covers of the opened packages can be closed again and used during the shelf life.

STORAGE

Store in unopened original packaging in a cool and dry place protected from frost. If the material is not stored in suitable environments, it should be thawed at room temperature without using direct heat, and the product should be mixed by mechanical methods until it becomes homogenous. Do not use compressed air in the mixing process. For short-term storage, a maximum of 3 pallets should be placed on top of each other and should be shipped with the first in first out system. For long-term storage, pallets should not be stacked on top of each other.

HEALTH and SAFETY PRECAUTIONS

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

For detailed information please consult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. SARTECH Yapı Malzemeleri San. Tic. Ltd Şti.is only responsible for the quality of the product. SARTECH Yapı Malzemeleri San. Tic. Ltd Şti. is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.