INNO- SEAL

FOX PURMAX® AQUA FS770

Polyurethane Based, Two Component, Solvent Free, Waterproofing Coating

Description

FOX PURMAX® AQUA FS770 is a polyurethane based, two component, solvent free, thixotropic waterproofing material. It is used safely in insulation of water tanks. It is registered for drinking water tanks.

Fields of Application

- In water tanks made of concrete, steel or other materials,
- Prefabricated concrete reservoirs,
- Drinking water tanks,
- Used in aquariums and artificial ponds

Advantages

- Adheres perfectly to almost any surface,
- Can be safely applied in closed areas since it does not contain solvent,
- Very high hydrophobic and hydrolysis resistance,
- Performs at wide temperature range,
- Heat resistance is between -40°C and + 90°C.
- Complies with the latest requirements set by the European Union for drinking water tanks,
- It is the ideal solution for water tanks.

Technical Data

Structure of Material		Component A Component B	Liquid Paste
Density	ASTM D1475	Component A Component B	1,22 gr/cm³ 1,37 gr/cm³
Color			RAL 9001 Off-White
Viscosity	ASTM D2196-86		10000 cP
Mixing ratio (A-B)			1/5
Drying Time 25°C and %55 humidity			5 - 6 hours
Fully Cured			7 days
Working Time			30 minutes
Application Temperature			-40°C / +90°C
Bond Strength	ASTM D4541		3 N/mm²
Elongation at Break	ASTM D412		% >100
Hardness	ASTM D2240		>40

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

Primer Selection Table

Surface Condition	Recommended Primer
Concrete in accordance with the standard	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER HB, FOX PURMAX® PRIMER 1K RAPID
Moist substrates	FOX EPOTHANE® PRIMER WB
Moist substrates (with Moisture Barrier)	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
High porous substrates	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER SL,
Highly porous moist substrates	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER HBF
Steel, galvanized steel and aluminum surfaces	FOX EPOTHANE® PRIMER HB, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Wooden boards and some special surfaces	FOX EPOTHANE® PRIMER, FOX PURMAX® PRIMER 1K RAPID
Asphalt and Bitumen membrane surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Re-application on application (Old-New)	FOX EPOTHANE® PRIMER, FOX EPOTHANE® PRIMER WA, FOX PURMAX® PRIMER 1K RAPID
Non-porous concrete and non-absorbent surfaces	FOX EPOTHANE® PRIMER SL, FOX EPOTHANE® PRIMER HBF, FOX PURMAX® PRIMER 1K RAPID, FOX PURMAX® PRIMER 1K
Ceramic, marble, granite and shiny surfaces	FOX EPOTHANE® PRIMER WA

Application Procedure

Surface preparation

Concrete Warehouses

The surface to be applied must be free from materials such as dirt, oil, grease, fuel, paraffin waste and paint that will prevent the sticking of the product. Should be cleaned with compressed air or sandblasting. In addition, the surface must be free of mold release agents, cement residues, chips, loose particles and cured membranes. Surface defects, uneven surfaces and cracks should be repaired with suitable INNO CRETE series repair mortars.

Please contact our technical department for warehouses other than reinforced concrete.

Mixing

FOX PURMAX® AQUA FS770 Component A contains pigment and filler. Mix the A Component product thoroughly with an electric mixer and a suitable mixing tip until get a homogeneous color and make sure that there is no product on the bottom and sides of the container. After adding the B component product into the A component product, mix continuously for 3-4 minutes until you get a homogeneous mixture. Avoid over mixing to minimize air entrainment.

Mixing tools: (300 rpm/min - 400 rpm/min) electric mixer and epoxy / polyurethane resin mixing tip.

Application

Priming

Surfaces to be made with **FOX PURMAX® AQUA FS770** must be previously primed with **FOX EPOTHANE®** series primer. Attention should be paid to the floor temperature (min +8°C). **FOX PURMAX® AQUA FS770** should be applied on the primer within the application period.

Coating

The prepared **FOX PURMAX® AQUA FS770** mixture can be poured onto the surface on horizontal surfaces (depot area, etc.) and applied in one or two coats with a suitable roller. If the application will be one coat, it can be applied on horizontal surfaces with two coats consumption. On vertical surfaces, application should be made in two coats with a suitable roller. Depending on the field of application and detail, third coat application can be applied.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with solvent or polyurethane thinner. **FOX PURMAX® AQUA FS770** can only be mechanically cleaned from the surface after hardening.

Coverage

For each layer 700 gr/m^2

Watch Points

- Concrete surfaces to be coated with epoxy / polyurethane must be at least 3 weeks old before application, creating a vapor barrier layer on the floors that sit on the ground, and the roof, walls, doors and windows of the building have been made, the ambient and surface temperature must be at least +10°C and +30°C.
- The materials to be used should be brought to the application area 1 - 2 days in advance and must be adapted to the ambient conditions.
- In cold weather applications, the ambient and floor temperatures should be increased, and the packages should be kept at +20°C - 25°C and ready for use in order to increase the workability of the products.
- Rain, dust, wind, animals and pest must be prevented from entering the building when the coating is fresh.
- Pot life and curing times in resin based systems are affected by ambient temperature, ground temperature and humidity in the air. At low temperatures, curing slows down, which extends the pot life, the coating time and the working time.

  At high temperatures, curing is accelerated, which reduces pot life, coating time and working time. In order for the entire product to complete its curing, the ambient and ground temperatures should not be lowered below the minimum temperature levels given. After the application is completed, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, there will be softening and blistering on the coating, which will cause the coating to lose its properties. Therefore, the coating should be completely removed and applied again.
- Consumptions are given for ideal conditions where ambient and surface temperatures are considered as 20°C. Actual consumption may vary depending on the surface structure and ambient temperature. It should be remembered that consumption will increase in bad surfaces and cold weather conditions.
- Mixing must be done with an electric mixer of 300-400 rpm/min and the specified epoxy / polyurethane resin mixing tip. In case of not mixing with the specified mixing tip, air will be dragged into the product, which will cause air bubbles to form on the coating after application.
- Warning: In areas exposed to sunlight, the color of the product may fade. However, this is all about appearance and does not affect features of product.

Package

20 kg Set
Component A; 8,35 kg tin bucket
Component B; 1,65 kg tin bucket

Shelf Life

Shelf life is 6 months from the date of production, when stored properly at room temperature, away from direct sunlight between +5°C to +30°C.

Storage

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 system. 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, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.
For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer