INNO- SEAL

FOX PURMAX® POLYUREA TOPCOAT

Polyaspartic Based, Two Component, Fast Curing, Aliphatic, Topcoat Coating

Description

FOX PURMAX® POLYUREA TOPCOAT is a polyaspartic based, two-component, aliphatic, high chemical resistance, low viscosity, flexible, solvent-free, glossy, top coat coating. With its fast drying time, it is an ideal solution for applications with limited reuse time.

Fields of Application

- After **FOX PURMAX®** series polyurethane waterproofing systems and **FOX PURMAX® SPRAYTEC** series waterproofing systems as topcoat coating;
- On terraces exposed to UV and sunlight,
- Terraces, balconies and all wet areas,
- Roof and garden terraces,
- Swimming and ornament pools,
- Aircraft hangars,
- Water distribution lines and canals,
- Underground water tanks,
- Tunnels,
- Channel,
- Warehouses,
- Collection tanks,
- Prefabricated buildings,
- Steel structures,
- Wide open terraces,
- Roof gutters,
- It is used as a topcoat in flowerbed insulation.

Advantages

- Has high chemical and mechanical strength (4 times compared to epoxy),
- Fast Curing (can be open to pedestrian traffic after approx. 2 hours),
- It is an aliphatic coating.
- Elastic,
- Easy to maintain and clean,
- Provides hygienic environments,
- Gloss finish coating,
- High adhesion strength,
- It does not contain volatile organic matter (VOC-solvent).

Technical Data

Density	1,43 gr/cm³
Color	In Ral Colors
Adhesion Strength to concrete	>3,85 N/mm²
Steel	>1,92 N/mm²
Dilution	No Dilution
Application Surface Temperature	+10°C / +25°C
Working Time	25 minutes
Pedestrian Traffic	2 hours
Fully Cured Time	7 days

The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend it.

Chemical Resistance

Acetic Acid %100	+-	Ammonium Hydroxide %100	+	Phosphate Ester Based Hydraulic Oil	+
Lactic Acid %45	+	Potassium Hydroxide %10	+	Sodium Bicarbonate	+
Citric Acid	+-	Potassium Hydroxide %20	+	Trisodium Phosphate	+
Phosphoric Acid	+	Sodium Hydroxide %50	+	Betadine Solution	+
Stearic Acid	+	Sodium Hydroxide %10	+	Methanol	+
sulfuric Acid %10	+	Isopropyl Alcohol	+	Transmission Oil	+
sulfuric Acid %50	+-	Hydrogen Peroxide	+	Servo Steering wheel oil	+
Muriatic Acid %10	+	Pickle juice	+	Super Gasoline	+
Deionize Water	+	Mustard	+	Antifreeze	+
Chlorinated water %10	+	Red wine	+	Break Oil	+
Vinegar + Water %5	+	Brine 310 gr/lt	+	Hot Wheel Resistance	+
Sugar + Water %10	+	Urine	+		
Battery Water	+-	Feces	+		

This research was done at room temperature. High temperature values and / or mixtures of chemicals can affect chemical resistance. Color change may occur due to the effects of chemicals. If the surface is exposed to chemicals, it should be cleaned within 1 hour at the most. It is recommended to use (+). Conditional use is recommended (+

Surface Quality

Concrete substrates to be applied must be solid and have sufficient compressive strength (at least 25 N/mm^2). Tensile strength should be at least 1.5 N/mm^2, humidity maximum 4%, ground temperature minimum +8°C. In addition, it should be noted that the dew point of the ground is above +3°C. The bottom surface is clean, dry and should be free from foreign substances such as all kinds of dirt, oil, grease, coating and surface curing materials.

Application Procedure

Preparation of the Substrate

The coating surface to which **FOX PURMAX® POLYUREA TOPCOAT** will be applied should be free of dust, dirt, oil and other substances that will prevent adhesion. The application should be done within the re-coatable period of the coating system. In case of application on old coatings, our Technical Service should be consulted for the application method.

Application Conditions

- Surface moisture content should be below 4%.
- Test method: CM - measurement or method of drying the material.
- There should be no rising moisture according to ASTM. (Polyethylene cover test).
- Relative air humidity should be 60% maximum.
- Pay attention to dewing and condensation! If there is choking on the coating, it should be dried with dry mop.
- Condensation and water vapor condensation on untreated or newly coated surfaces will damage the coating. In order to prevent this, the floor temperature must be above +3°C.

Considerations in Applications,

Surface Temperature ; Minimum +10°C - Maximum +25°C
Environment Temperature ; Minimum +10°C - Maximum +25°C
Material Temperature ; Minimum +10°C - Maximum +25°C

Mixing

Note that the product temperatures are between 10°C and 25°C before starting the mixture. Mix A component **FOX PURMAX® POLYUREA TOPCOAT** thoroughly with an electric mixer and a suitable mixing tip. After adding the B component product to the A component product, mix continuously for at least 3 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

FOX PURMAX® POLYUREA TOPCOAT is poured on the surface in equal amounts and at equal intervals and applied with the help of a roller or airless spray machine.

Cleaning of the Tools

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

Coverage
150 - 250 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.

Package
5 kg Set
Component A; 3,15 kg tin bucket
Component B; 1,85 kg tin bucket

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

Storage
Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 2 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.

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