

Aliphatic, transparent, colored and glossy polyurethane-based liquid membrane

Product Description

BILIZO TOP COAT 450 F is a pigmented, wear resistant, semi-rigid, color- and UV-stable, weather-stable, cold applied and cold curing, one component aliphatic polyurethane coating used as a top-coat for protection over exposed waterproofing coatings, subject to high wear conditions. Cures by reaction with ground and air moisture.

Uses

- Waterproofing of public pedestrian trafficked areas (stadiums)
- Waterproofing of exposed car parking areas
- Waterproofing of surfaces exposed to heavy wear conditions
- On its own, also used for the fiber encapsulation of old exposed asbestos surfaces

Packaging

BILIZO® TOP COAT 450 F are presented as transparent in 16 kg or 4 kg metal pails.

Consumption

250-350 g/m² applied in one or two layers.

Depending on the system solutions, the usage and amount may change.

Advantages

- Simple application (roller or airless spray).
- Resistant to constant, heavy abrasion and wear conditions.
- Color stable.
- Gives a glossy and easy-to-clean surface.
- Does not show the chalking effect of aromatic polyurethane waterproofing coatings.
- Water resistant.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Frost resistant.

Technical Data

Appearance:	Liquid
Density:	1 ± 0,05 gr/cm ³ 20°C
Viscosity	500 cP
Curing Time (+25°C):	6-8 hour
Waiting between layers :	24 hours
Service Temperature:	-40 to 90 °C
Shore D Hardness:	40
Tensile Strength at Break:	400 kg/cm ² (40 N/mm ²)
Elongation:	>400
Water vapor permeability:	0,8 gr/ m ²
Water Absorption:	< %1
QUV (accelerated corrosion test in the air factor) at 60 ° C for 4 h UV (UVB lamps) and 50 ° C for 4 hours COND application	2000 hours passed
Hydrolysis (8% Potassium Hydroxide, 60 ° C for 10 days)	There was no significant change in the elastomeric property

Application

Environmental Conditions :

- A relative humidity of air should be maximum of 80%, application temperature (ambient and substrate) between + 3 ° C and + 35 ° C should be.
- At open areas for 24 hours before starting the application, during the application and 24 hours after application should not be rainy.
- Surface temperature must be 3 ° C above of the current dew drop temperature. (Want Ambient Temperature Ambient Humidity- Dew Drop Temperature table from your company).
- Not recommended for unsound substrates. It does not apply in thick coats.
- Maximum moisture content of the surface should not exceed 5%.

Surface Preparation: Surfaces should be cleaned using pressurized water if possible; oil, grease, fuel and paraffin waste should be removed, and also mold release agents, cement residues, sawdust, loose particles and curing membranes must be removed. Glassy, glazed substrates should gradation or should be primed with suitable primer. For more detailed information for the primer, please contact our technical department.

WARNING : Application surface must be dry.

Mixing:

When mixing material or while pigmentation , taking care not to formation of air bubbles, otherwise bubbles may remain on the cured membrane. Mixed with a mixer or by hand at low speed (300 rpm / min) .

Application:

Apply one or two coats with brush, roller or airless sprayer. Time should not exceed 48 hours between layers. At nonpigmented application , whether substrate or surface are resistant to UV radiation should be considered and in this direction necessity should be made.

Consumption:

The minimum consumption per floor: **0,15 kg/m²**

In porous substrate: 0,1 – 0,5 kg/m²

Sealing the concrete: 0,1 – 0,15 kg/m²

Storage

Store in the original unopened pails, in a dry place at the temperature between 5 ° C and 25 ° C for at least 12 months. Opened, material should be used as soon as possible.

Safety Measures

Follow about the product Material Safety Data Sheet (MSDS) according to arranged EU directives. Although not contain volatile substances, creation of conditions for proper ventilation in indoor environments is strongly recommended. In addition, methane gas leaked from soil can be accumulated in stores. This possibility should be taking always into consideration. Want from your seller material safety data sheet (MSDS).