

BILIZO® 250

Liquid-Applied, One Component Polyurethane Waterproofing Membrane

Product Description

BILIZO® PUR 250 is liquid-applied, highly permanent elastic, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing. Cures by reaction with ground and air moisture.

Uses

- Waterproofing of roofs, balconies, terraces and concrete curtails.
- Waterproofing of wet areas (under-tile) in bathrooms, swimming pools, kitchens etc.
- Protection of polyurethane foam insulation.
- Waterproofing of flowerbeds and planter boxes.
- Waterproofing of water storage and water distribution channels.
- Waterproofing and protection of concrete constructions like bridge decks, tunnels etc.
- Waterproofing of metal surfaces.

Packaging and Colors

BILIZO® PUR 250 is supplied in white and grey in 25 kg and 6 kg.

Consumption

2,0 kg/m² consumption should be applied in two or three layers.
(In mesh application, you may need extra 500-700 gr consumption.)

Advantages

- UV resistant.
- When applied forms seamless membrane without joints.
- As it is pure polyurethane, it can continually contact with water.
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C.
- Crack-bridging up to 2mm, even at -10 °C.
- Provides water vapor permeability.
- Full surface adherence without any additional anchoring.
- The waterproofed surface can be walked on.
- Even if the membrane gets damaged, it can be easily repaired locally within minutes.
- ANTIROOT certified; roots piercing resistance.

Technical Data

PROPERTIES	RESULTS	TEST METHOD
Composition	High-strength polyurethane pre-polymer	
Elongation at Break	% 900 + 80	ASTM D 412
Tensile Strength	7,45 + 0,30 N/ mm ²	ASTM D 412
Water Vapor Permeability	25,8 + 4,4 gr/m ² /day	ISO 9932:91
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Adhesion to Concrete	2,2 + 0,2 N/mm ²	ASTM D 903
Hardness (Shore A Scale)	65 + 5	ASTM D 2240
Construction Material Fire Class	B2	DIN 4102-1
Resistance to sparks and radiating heat	Passed	DIN 4102-7
Application Temperature	5 ° -30 °C	Conditions: 20 °C, 50% RH
Rain Stability Time	4 hours	
Light Pedestrian Traffic Time	12 hours	
Final Curing Time	7 days	
Density	1.40gr/cm ³	
Solid Content	84%	
Surface Temperature	Min +10°C Max +40°C	
Ambient Temperature	Min +10°C Max +40°C	
Relative air Humidity	Max %70-80	
Dew Point	Pay attention to the dew point! Dew point must be at least +3°C in order to reduce the risk of condensation and blooming in finished surface and uncured coating surface temperature.	
Chemical Properties	Good resistance against acidic and alkali solutions (10%), detergents, seawater, oils.	

Application

Surface Preparation: The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

WARNING: Do not wash the surface with water.

Priming: Prime absorbent surfaces like concrete, cement screed or wood with BILIZO[®] EPOXY COAT or with BILIZO[®] MACRO PRIMER. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with BILIZO[®] MACRO PRIMER.

Waterproofing membrane: Stir well before using. Pour the BILIZO[®] PUR 250 onto the primed surface and lay it out by roller or brush, until all surface is covered. After 12 hours (not later than 36 hours) apply another layer of the BILIZO[®] PUR 250. If desired apply a third layer of the BILIZO[®] PUR 250.

Finishing: If a color stable and chalking-free surface is desired, apply one or two layers of the BILIZO[®] TOP COAT 370 over the BILIZO[®] PUR 250. The application of the BILIZO[®] TOP COAT 370, is especially required, if a dark final color, is desired. (e.g. red, grey, green, etc.). If a heavy duty, abrasion resistant surface is desired (e.g. car parking), apply two layers of the BILIZO[®] TOP COAT 370.

WARNING: After 36-48 hours the material is applied, air temperature should be above 8°C, it should not be rainy or snowy and should be applied with considering the possibility of raining.

Storage

Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5^o -30^o C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety Measures

BILIZO[®] PUR 250 contains isocyanates. It is flammable. Keep away from ignition sources. Keep away from smoke. Hands and eyes must be protected with gloves and protective glasses. Case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Adequate ventilation is required during the application. Keep out of reach of children. Please study the Safety Data sheet.