

BETTOSEAL PU TRANS

Transparent, PU Based, Aliphatic Liquid
Membrane Developed for Waterproofing and
Protection

MATERIAL DESCRIPTION

BETTOSEAL PU TRANS is an aliphatic polyurethane based, single component, transparent, cold applied, liquid membrane for waterproofing and protection.

AREAS OF USE

- Terrace and balcony on ceramic tiles
- Concrete
- Metal surfaces
- Glass and glass brick surfaces
- Marble surfaces
- Ceramic surfaces
- On natural stones (except travertine)

CAUTION : It should never be used in areas that are constantly exposed to water such as swimming pools, ornamental pools and water tanks.

TECHNICAL SPECIFICATIONS

BETTOSEAL PU TRANS	Polyurethane resin
Structure of the Material	Liquid
View	Liquid
Density	1± 0.05 gr/cm ³ (20°C, 55% relative humidity)
Solids	%80-85
Viscosity	1000 cP
Drying Time (+25°C)	6 hours
Waiting Service	6-24 hours
Temperature Between	-40 to 80 °C
Floors	40
Shore D Hardness	200 °C
Short Term	350 kg/cm ² (35 N/mm ²)
Elongation Percentage	>350 %
Tensile Strength at Break	
Water Absorption	< %1,5
Water Vapor Permeability	.8 g/m ²
QUV (accelerated weathering test) UV (UVB Lamps) at 60°C for 4 hours and COND at 50°C for 4 hours	3000 hours have passed Passed
Thermal Resistance (100 days at 80 °C)	

ADVANTAGES

- High UV resistance,
- No yellowing and blistering,
- Provides monolithic waterproofing by fully adhering to the surface.
- Excellent mechanical properties.
- Excellent resistance to bad weather conditions.
- Easy to apply (by roller or airless spray).
- As it is a pure polyurethane, it can be in constant contact with water.
- Maintains its mechanical properties at temperatures between -40°C and +90°C.
- Adhesion is very strong.
- Alkali and chemical resistant, it retains its transparency and elasticity even after years.

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



SURFACE PREPARATION

Oil, grease, paraffin wastes, cement grout, loose particles, mold release agents, cured old membranes and other factors that may weaken adhesion should be removed from all **BETTOSEAL PU TRANS** surfaces before application. If possible, the surface should be cleaned by washing with high pressure water and dried completely. Surface defects should be repaired with suitable products. Before applying the **BETTOSEAL PU TRANS** coating, surfaces that remain damp (e.g. under balcony ceramics) must be allowed to dry completely (max. 5% humidity).

PRIMING

Primer **BETTO TILE PRIMER** should be used on non-porous surfaces such as ceramic and marble. Apply the primer with a clean cloth (as if cleaning the surface) without allowing it to accumulate and flow.

MIXING

BETTOSEAL PU TRANS is ready to use, not diluted.

APPLICATION METHOD

BETTOSEAL PU TRANS coating should be poured onto the primed surface and applied over the entire surface with a roller or 1 mm toothed trowel. A second coat of **BETTOSEAL PU TRANS** coating should be applied 12 hours after the first coat (within 18 hours at the latest) using a roller or brush. For better waterproofing results, three coats of **BETTOSEAL PU TRANS** coating are recommended.

MATTERS TO BE CONSIDERED

BETTOSEAL PU TRANS should not be applied on ceramic surfaces with nitric salts in the joints without appropriate pre-treatment.

- **BETTOSEAL PU TRANS** should not be applied on surfaces previously treated with silane, siloxane, silicone or other water inhibitors. If applied, poor adhesion is expected.

- **BETTOSEAL PU TRANS** should not be applied above a thickness of 1 mm per coat (dry layer).

- Relative humidity of air up to 80%, in practice, ambient and surface temperature

It should be between +8°C and +35°C. In addition, application should not be made in extremely hot, rainy or windy weather.

- The ground temperature should be 3°C above the current dew point (ambient temperature, ambient humidity, dew point temperature table from our company).

- For applications to be carried out at appropriate temperatures, the materials to be used should be brought to the application area 1 - 2 days in advance, stored and adapted to the ambient conditions.

- In applications to be carried out in extremely cold weather, the ambient and floor temperature should be increased with the help of heaters, and the packages should be conditioned at +20 - +25°C to increase the workability of the material and made ready for use. Epoxy and polyurethane based floor systems should be applied by specialized applicators.

- The working and reaction times of resin-based systems are affected by the ambient and ground temperature and the relative humidity in the air. At low temperatures, the chemical reaction slows down, which prolongs the use time, coating time and working time. At the same time, consumption increases as viscosity increases. High temperatures increase the chemical reaction and the times mentioned above are correspondingly shortened. After completion of the coating,

The coating should not be exposed to air temperature below +8°C for at least 36-48 hours, and there should be no direct water contact or snow on the newly applied product. If there is water contact, this will cause carbonation and softening of the coating, which will cause the coating to lose its properties.

EXPENDITURE

BETTOSEAL PU TRANS should be applied in two coats with an average consumption of 0.8 - 1.0 kg/m².

CLEANING OF INSTRUMENTS

Tools and equipment used after application can be cleaned with cellulosic or polyurethane thinner.

PACKAGING

5 kg tin

STORAGE CONDITIONS

It should be stored in its unopened original packaging, in a cool and dry environment at temperatures between +10 and +25 degrees, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out basis. For long term storage, pallets should not be stacked on top of each other.

SHELF LIFE

12 months from the date of production under appropriate storage conditions.

SECURITY MEASURES

During application, work clothes, protective gloves, goggles and masks should be worn in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not come into contact with the skin and eyes, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage materials should not be brought into the application areas. Keep out of the reach of children.



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