



YAPI KİMYASALLARI SAN. VE TİC. LTD. ŞTİ.

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BETTOSEAL PU 1K

Polyurethane Based, UV Resistant, One Component Elastic
Waterproofing Material

MATERIAL DESCRIPTION

BETTOSEAL PU 1K is a polyurethane-based, one-component waterproofing material with high elasticity, which cures with the humidity of the air, forming a waterproof elastic membrane.

AREAS OF USE

- Outdoor, vertical and horizontal applications,
- In prefabricated concrete stream insulation,
- Terraces, balconies, wet areas and garden terraces,
- From the direction of the water in the foundation insulation,
- Reinforced concrete structures that are expected to deflect,
- In garages,
- All types of roofs and light roofs,
- Used in steel and sandwich panel structures.

ADVANTAGES

- Single component,
- Provides high adherence,
- It is applied with a roller,
- It retains its elasticity even at low temperatures,
- It has the ability to bridge shrinkage cracks with its high elastic structure,
- Excellent mechanical properties,
- It forms a seamless, moisture and water impermeable coating, water vapor permeable.
- Resistant to soil chemicals, bacterial attack, alkalis and salt solutions,
- In bundling, it forms a seamless, monolithic elastic membrane,
- Resistant to freeze - thaw cycles.

TECHNICAL SPECIFICATIONS

Structure of the Material	Polyurethane Pre-Polymer
Color	Gray - White
Density	1.30 kg/lt
Adhesive Strength	$\geq 3.0 \text{ N/mm}^2$
Working Time	30-60 Minutes
Tensile Strength	$\geq 2 \text{ N/mm}^2$
Applicable Floor Temperature	+10 °C +35 °C
Service Temperature	-30 °C +70 °C
Full Drying and Chemical Resistance	7 days
Resistance to Humidity	7 days
Reaction to Fire	Class E

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



SURFACE PREPARATION

The surface to be applied must be sound, free from all kinds of oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface and all loose parts must be cleaned. Iron and wooden wedges on the surface should be removed and active water leaks, if any, should be repaired with **BETTOFIX** and gaps, uneven surfaces and corner edges should be repaired with **BETTOCRETE** repair mortars with a radius of at least 4 cm. **BETTOSEAL PU 1K** concrete must be primed with **BETTOPRIME PU 2K** before application. Moisture barrier primer must be used on damp surfaces. The concrete must have completed 28 days of curing.

Ceramic and granite surfaces should be primed with **BETTOPRIME SILAN** before application.

MIXING

BETTOSEAL PU 1K is made ready for application by mixing with a 300-400 rpm mixing drill for 1-2 minutes.

APPLICATION METHOD

BETTOSEAL PU 1K mixture is applied in two or three coats with the help of a roller 1 day after priming with primers suitable for the surface shape. **BETTOSEAL PU 1K** can also be applied by spraying machine if necessary. Waiting time between coats varies according to ambient conditions. In general, the time to apply the second coat is 12 hours.

PACKAGING

BETTOSEAL PU 1K in 25 kg tin packages with circle lids

EXPENDITURE

BETTOSEAL PU 1K, 0,650 kg/m² (single coat) two or three coats are recommended. Approximately 1.30 kg of material is sufficient for 1 mm dry film thickness.

SHELF LIFE

Under proper storage conditions, 9 months from the date of production. It should be consumed within 1 week at the latest after lifting the strap and opening the package.

STORAGE

It should be stored in its unopened original packaging, in a cool and dry place, protected from frost. For short-term storage, shipments should be made on a first-in, first-out basis. For long-term storage, pallets should not be stacked on top of each other.

MATTERS TO BE CONSIDERED

The working and reaction times of resin-based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures, the chemical reaction slows down, which increases pan life, 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 shortened accordingly. The ambient and ground temperature should not fall below the minimum permissible temperature for complete curing of the material. After completion, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, this will cause carbonation and softening on the coating and cause the coating to lose its properties. In such a case, the entire coating should be removed from the floor and replaced.

SECURITY MEASURES

During application, work clothes, protective gloves and goggles should be used in accordance with the rules of Occupational Health and Labor Health. Avoid contact with skin and eyes during storage and application, 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. It should be stored out of the reach of children. For detailed information, Material Safety Data Sheet should be consulted.

RESPONSIBILITY

The data contained in this technical document are based on our scientific and practical knowledge. **BETTON Construction Chemicals San. ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BETTON Construction Chemicals San. ve Tic. Ltd. cannot be held responsible** for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product. **Ltd. Şti.** cannot be held responsible.



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