

BETTOSEAL PU 2K

Solvent-free, two-component, polyurethane-based coating material developed for the insulation and protection of water tanks

MATERIAL DESCRIPTION

BETTOSEAL PU 2K is a polyurethane based, two-component, solvent-free, cold applied, elastic liquid membrane for waterproofing and protection purposes, designed for drinking water tanks.

AREAS OF USE

- Water tanks in direct contact with drinking water,
- Insulation of drinking water distribution channels, pipes and reservoirs,
- Concrete warehouses,
- Wet areas in bathrooms, swimming pools, kitchens, etc,
- Used in outdoor swimming pools and ornamental pools.

ADVANTAGES

- Direct contact with drinking water,
- It has excellent adhesion properties,
- It can be easily applied indoors,
- Provides effective resistance against chemicals,
- It is the most effective solution for water tanks in terms of cost and performance,
- Easy to apply (by roller or airless spray),
- 100% adhesion to the application surface,

TECHNICAL SPECIFICATIONS

View	A: Thixotropic. B: Liquid
Color	Ral 7040, Ral (9001 off-white) 5:1
Density	A:1.40, B:1.22 $\pm$ 0.05 gr/cm ³ 20°C
Mixing Ratio	(A:B - by weight)
Solid by Volume	100% (A+B)
Mixture Life (+25°C)	20-30 minutes
Waiting Between Floors	6-48 hours
Service Temperature	-40 to 90 °C
Shore D Hardness	40
Elongation at Break	%100
Tensile Strength	200 kg/cm ² (20 N/mm ²)
Water Absorption	<0,5 %
Adhesion to Concrete	20 kg/cm ² (2 N/mm ²)

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

BETTOSEAL PU 2K should be at least 28 days old and the concrete surface humidity should be 4-6%. All loose particles, oil and paint residues, cement grout must be removed. Problematic surfaces on the concrete must be repaired beforehand. The residues, roughnesses and shiny screed on the concrete surface should be roughened and wiped with tools such as sandblasting, machine, diamond drum wiping machine etc. and the surface should be roughened and wiped. The entire surface should be cleaned of dust with an industrial type electric vacuum cleaner. The surface should definitely not be washed with water.

Priming

Absorbent surfaces such as concrete, screed, cement and wood should be primed with **BETTOPRIME PU 2K**, absorbent and damp surfaces should be primed with **BETTOPRIME PU 1K**, metal, sheet metal and galvanized surfaces should be primed with **EPX STEEL PRIMER** and non-absorbent surfaces such as ceramic, tile and old coatings should be primed with **BETTOPRIME PU 1K**.

MIXING

BETTOSEAL PU 2K is supplied in ready-to-use sets according to the mixing ratio. Make sure that the material temperatures are between +15 - +25°C before mixing starts. Component A of **BETTOSEAL PU 2K** contains pigment. Mix epoxy/polyurethane resin with epoxy/polyurethane resin mixing tip fitted at 300°C until a homogeneous color is obtained.

- Mix with a 400 rpm mechanical mixer for 3 - 4 minutes, without entraining air. Then all of the B component should be poured into the A component and make sure that there is no material left in the B components. A and B components should be used after mixing until homogenous (at least 3 minutes).

Mixture Ratios

BETTOSEAL	PU	2K	Component	A
			Component B	Amount
			10 kg	kg
Mixture Density ¹			.40 kg/liter	1 - 22 kg/liter

APPLICATION METHOD

After mixing **BETTOSEAL PU 2K** as recommended above, pour it onto the primed surface and spread it with a roller or brush until the entire surface is covered. (Another application method is airless spray application.) After 12 hours (within 24-36 hours at the latest), apply another coat of **BETTOSEAL PU 2K**.

CLEANING OF INSTRUMENTS

After application, tools and equipment can be cleaned with cellulosic or po- liurethane thinner.

PACKAGING

BETTOSEAL PU 2K Component A: 10 kg tin pail + Component B: 2 kg tin bucket

EXPENDITURE

BETTOSEAL PU 2K should be applied in two coats with an average consumption of 1.4-2.0 kg/m² (600-800 gr/m² additional consumption may be required for mesh applications).

MATTERS TO BE CONSIDERED

-The relative humidity of the air should be maximum 80% and the ambient and surface temperature should be between +10°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 temperature. (Please request the table of Ambient Temperature-Ambient Humidity-Dew point temperature 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 shorter. After the coating is completed, the air temperature should not fall below +8°C for at least 36-48 hours, and direct water contact and snow should not be allowed on the newly applied product.

SHELF LIFE

1 year from the date of manufacture under appropriate storage conditions.

STORAGE

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 system. For long-term storage, pallets should not be stacked on top of each other.



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