

# CLEVERPROOF™ 2KW PU

## TWO COMPONENT POLYURETHANE BASED, SOLVENT-FREE, LIQUID WATERPROOFING MEMBRANE FOR WATER TANKS

### DESCRIPTION:

CLEVERPROOF™ 2KW PU is two component, polyurethane based, solvent free liquid waterproofing membrane designed for the protection and waterproofing of drinking water tanks.

### TYPICAL APPLICATIONS:

- ✓ Water tanks
- ✓ Concrete water tanks
- ✓ Warehouses, made of steel and other metals
- ✓ Surfaces in direct contact with drinking water

### FEATURES AND ADVENTAGES:

- ✓ It has certification for drinking water tanks.
- ✓ It is solvent free.
- ✓ It has heat resistance between -40° C and +90° C.
- ✓ It has excellent adhesion properties.
- ✓ Indoor applications
- ✓ Provides effective resistance against chemicals.
- ✓ It is the ideal solution for water tanks in terms of price and performance.

### CONCRETE SUBSTRATE STANDARTS:

- ✓ Hardness R28: 15 Mpa
- ✓ Humidity: W <10%
- ✓ Temperature: + 5 ° C and + 30 ° C
- ✓ Relative Humidity: <85%

For detailed information, please consult our technical department.

### APPLICATION PROCEDURE:

#### SURFACE PREPARATION:

Before the application, the adhesion weakening factors such as oil, grease, paraffin waste, cement grout, loose particles, mold release agents, cured old membranes, should be removed from the surface. After cleaning the surface with high pressure water, it should be dried. Surface defects should be repaired with suitable products.

#### PRIMING:

Solvent-free CLEVERPRIME™ EPOXY PRIMER WB should be preferred in closed and underground tanks. After the primer coat dries, repair holes, cracks, joints and wall corners on the surface with CLEVERSEAL PU SEALANT.

#### APPLICATION:

Components A and B are combined and mixed in a low-speed mixer for a minimum of 2-3 minutes and made ready for use. The usage time of the prepared mixture is between 20 and 30 minutes

at + 20° C. The usage time may be shortened or extended depending on the change in air temperature. In order to increase the pot life, the product is poured onto the floor or put into a larger container. The material should be applied to the previously primed surface with a roller or brush until the entire surface is covered, by pouring it in minimum 2 layers. After the first layer is applied, the second layer should be applied minimum 6 and maximum 24 hours later. If the application has not been made within the specified time for the second floor, please consult the technical office of CLEVER POLYMERS for information and solutions before application.

### APPLICATION REMARKS:

- ✓ Not recommended for unstable surfaces.
- ✓ It is not used for waterproofing of swimming pools with chemically treated water.

### CONSUMPTION:

- ✓ First Layer (min.): 0,65 - 0,75 kg/m<sup>2</sup>
- ✓ Second Layer (min.): 0,65 - 0,75 kg /m<sup>2</sup>
- ✓ Total Consumption (min.): 1,30 - 1,50 kg/m<sup>2</sup>

### CLEANING:

After the application, all tools used should be cleaned with a suitable solvent. The rolls are for single use only. They are only for single use.

### PACKAGING AND COLOR:

In 20 Kg. + 4 Kg. metal buckets, in blue color.

In 5 Kg. + 1 Kg. metal buckets, in blue color.

### STORAGE AND SHELF LIFE:

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between +5° C and +25° C. Opened product should be used as soon as possible.

### PRECAUTIONS:

The product should be used in well ventilated environments. The product should not be in contact with open fire. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. Adequate ventilation is required during application. For more detailed information, ask for Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

## TECHNICAL DATA:

QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	Two component Solvent Free Polyurethane
Density	ASTM D 1475 / EN ISO 2811-1 (+20C)	1,35 (±0,05) gr/cm <sup>3</sup>
Viscosity	ASTM D 2196-86 / EN ISO 3219 (+25C)	15.000 - 20.000 cp
Mixing ratio	Clever Lab.	5/1 by weight
Glossy	Clever Lab.	Semi-Gloss
Application Temperature	Clever Lab.	+5 °C to +30 °C
Solid Content	Clever Lab.	100%
Hardness	ASTM D2240, DIN 53505, EN ISO R868	40 (Shore D)
Elongation at Break	ASTM D 412 (+23 °C)	> 100%
Pot Life	Clever Lab. (+25 °C)	20 to 30 minutes
Tensile Strength	ASTM D 412 (+23 °C)	> 20 N / mm <sup>2</sup>
Adhesion to Concrete	TSE EN 1542 (+23 °C)	> 2 N / mm <sup>2</sup>
Service Temperature	Clever Lab.	-40 °C to +90 °C
Tack Free Time	25 °C / 55% RH	6 hours
Recoat Time	Clever Lab.	6 to 48 Hours

\* Viscosity measured at + 25 ° C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

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