

### DESCRIPTION

**CLEVER 2KW PU;** is a two component, solvent free, polyurethane waterproofing membrane especially designed for potable water tanks.

### FEATURES

- Excellent adhesion.
- Solvent free.
- Safely used in closed areas.
- Resistant to chemicals.
- Best choice for water tanks with its economic and good performance.
- Certified for potable water uses.

### TYPICAL APPLICATIONS

- Concrete tanks,
- Water tanks,
- Irrigation channels,
- Bathrooms, kitchens and any other wet areas,
- Places which contacts directly with drinking water,

### SURFACE PREPARATION

All surfaces must be free of oil, grease and moisture before the application. Clean the surface using a high pressure washer and remove oil, grease and wax contaminants, cement laitance, loose particles and mould release agents must be removed. Fill surface irregularities with the relevant product.

### PRIMING

Prime very absorbent and brittle concrete or brittle cement screed surfaces with CLEVER EP PRIMER WB or CLEVER EPOXY PRIMER (Humidity of the concrete should not exceed %5). Or for damp concretes CLEVER EP PRIMER WB or CLEVER EP PRIMER N is suggested for moisture barrier. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with CLEVER PU TILE PRIMER. Apply the material with roller or brush in two, at least, coats. Do not exceed 48 hours between coats. For a better interlayer adhesion, use CLEVER PU PRIMER 200.

### MIXING - THINNING

**CLEVER 2KW PU;** is supplied in two parts in two different containers with their proper mixing ratio. Add the entire contents converter to the base portion. Power mix the base portion first to obtain a smooth, homogenous condition.

### APPLICATION

**CLEVER 2KW PU;** Apply the mixture with a brush or a roller in at least two or three layers. Minimum consumption should be 0,5 - 0,7 Kg/m<sup>2</sup> for each layer and two or three coats of application is suggested for better performance. Total consumption is 1,5 - 1,8 Kg/m<sup>2</sup>. Do not wait for more than 48 hours between applications. Re-apply the primer if this time limit is exceeded. Do not allow coating to remain in the application equipment longer than 2 hours. Flush out all application equipment whenever there is a delay in application. On the tank floor, a singlecoat of 1400 gr/m<sup>2</sup> is sufficient. On tank surfaces with direct exposure to sunlight, CLEVER 2KW PU will discolor. This is purely visual, it does not affect the performance of the product.

### CONSUMPTION

Each layer min.: 0,50 - 0,70 kg/m<sup>2</sup>  
Min. two or three coats should be applied  
Total min. consumption: 1,5 - 1,8 kg/m<sup>2</sup>

### PACKAGING AND SHELF LIFE

**24 Kg + 4 Kg**

**6 Kg + 1 Kg**

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5 - 25 °C. Once opened, use as soon as possible.

### PRECAUTION

Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. 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. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

### NOTE

This is not a specification and all information is given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult Clever Polymers for detailed recommendations. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid.

## SPECIFICATION DATA

<b>Coating type</b>	2K Solvent Free Polyurethane Membrane
<b>Color</b>	Blue
<b>Density ASTM D 1475/EN ISO 2811-1(20°)</b>	1,35 g/cm <sup>3</sup> ±0.02
<b>Viscosity ASTM D 2196/EN ISO 3219(25°)</b>	9000-10000 cp (A+B)
<b>Packaging</b>	6 Kg + 1 Kg or 24 Kg + 4 Kg
<b>Mixing Ratio</b>	6/1
<b>Gloss</b>	Semi Gloss
<b>Application Temperature</b>	+5 °C to +35 °C
<b>Thinner</b>	Thinning is not recommended
<b>Service Temperature</b>	-40 °C to +90 °C
<b>Shelf Life</b>	12 Months
<b>Theoretical spreading rate</b>	1,5 - 1,8 kg/m <sup>2</sup>
<b>Hardness ASTM D2240, DIN 53505, ISO R 868</b>	40 (Shore D)
<b>Elongation Percentage (23°C)(ASTM D 412)</b>	≥ %100
<b>Pot Life</b>	30 Minutes at 25°C
<b>Tensile Force at Break (23°C)(ASTM D 412)</b>	≥ 2 N/mm <sup>2</sup>
<b>Adherence on Concrete (23°C)(ASTM D 903)</b>	≥ 2 N/mm <sup>2</sup>
<b>Method of application</b>	Roller, brush
<b>Drying Time</b> Potlife and drying time depends on temperature and quantities mixed	23 °C, %55 RH <b>Touch dry:</b> 6 Hrs <b>Recoating:</b> 8-24 Hrs <b>Fully cured:</b> 7 days

