

## DESCRIPTION

**CLEVERPROOF 400 BT-1K AQUA;** One component, thixotropic, bitumen-polyurethane dispersion based liquid membrane. It produces a highly elastic membrane with its excellent adhesion to many type of surfaces. Used for horizontal and vertical applications.

## FEATURES AND ADVANTAGES

- Water based,
- Thixotropic,
- Simple application (by brush or roller),
- When applied forms seamless membrane without joints,
- It is based on elastomeric hydrophobic polyurethane resin,
- It provides permanent elasticity up the -40 °C,
- Provides water vapor permeability, so the surface can breathe,
- If 400 BT 1K AQUA gets damaged, it can be easily repaired locally within minutes,
- Resistant to chemicals,
- Useful for vertical applications and never sagging.

## TYPICAL APPLICATIONS

- Wet areas,
- Asphalt membranes,
- Untertile applications,
- Basements and retaining walls,
- Gypsum and cement boards,
- Roof, terraces and balconies.

## 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, brittle cement screed or metal and ceramic surfaces with CLEVERPRIME EPOXY PRIMER WB.

### • APPLICATION

Firstly mix the portion by a low speed mixer for a couple of minutes before using. Apply the mixture on primed surface with a brush or a roller in minimum two layers. Second layer should be applied in min. 12 hours max. 24 hours after application of first layer.

## CONCRETE SUBSTRATE STANDARDS

Hardness R28 = 15 Mpa

Humidity = < %5

Temperature = +5°C ile +30°C

Relative humidity = < %85

For information about other substrates, please contact with our technical department.

## CONSUMPTION

First layer min: 0,75 -1,00kg/m<sup>2</sup>

Total min. consumption: 2,00 - 3,00 kg/m<sup>2</sup>

NOTE: Min 2 or 3 layers should be applied.

## CLEANING OF TOOLS

Tools should be cleaned with water after application. Rollers are single use only.

## PACKAGING AND COLORS

20 KG Sealed Pail

Black

## SHELF LIFE

Can be kept for 9 months minimum in the original unopened pails in dry places and at temperatures of +5 °C and +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. In case of eye contact, rinse eyes with plenty of water for the material. During application ventilation should be done well. The MSDS (Material Safety Data Sheet) is available on request.

### SPECIFICATION DATA

<b>Coating Type</b>	One Component Bitumen - Polyurethane Dispersion
<b>Density ASTM D 1475/EN ISO 2811-1 (+20°C)</b>	1,05 - 1,10 gr/cm <sup>3</sup>
<b>Viscosity ASTM D 2196-86/EN ISO 3219 (+25°C)</b>	3,000-6,000cp
<b>Water Vapour Transmission (EN ISO 7789)</b>	0,8 gr/m <sup>2</sup> per hour
<b>Gloss</b>	Semi Gloss
<b>Application Temperature</b>	+5 °C to +30°C
<b>Thinner</b>	Thinning is not recommended
<b>Temperature Resistance</b>	200 days at +80°C & +150°C Dry (shock)
<b>Solid</b>	%55
<b>Hardness ASTM D2240, DIN 53505, EN ISO 868</b>	35 (Shore A)
<b>Elongation Percentage (ASTM D 412) (+23°C)</b>	≥ %600
<b>QUV (ASTM G154)</b>	1000 hours
<b>Tensile Force at Break (ASTM D 412) (+23°C)</b>	≥ 4 N/mm <sup>2</sup>
<b>Adherence on Concrete (TSE EN 1542) (+23°C)</b>	≥ 1 N/mm <sup>2</sup> (With primer)
<b>Method of Application</b>	Roller, Brush and Spatula
<b>Drying Time</b> Potlife and drying time depend on temperature and quantities mixed	+25 °C , %55 RH <b>Touch Dry:</b> 10 Hrs <b>Recoating:</b> 12-24 Hrs <b>Fully Cured:</b> 10 days

Viscosity measurements are carried out at +25 °C according to EN ISO 3219. Viscosity increases inversely with temperature.

**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.



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