

DESCRIPTION

400 BT-1K is a single component, bitumen polyurethane based, liquid waterproofing membrane. It is thixotropic. It creates a highly elastic and durable film layer by providing a strong adhesion to the applied surface. It is suitable for both vertical and horizontal application.

TYPICAL APPLICATIONS

- Basements,
- Wet areas,
- Asphalt membranes,
- Undertile applications,
- Foundations, and foundation walls,
- Gypsum and cement panels,
- Roof, terrace and balconies.

FEATURES AND ADVANTAGES

- Thixotropic.
- Fast curing.
- Easy to apply.
- When applied it forms a single piece membrane that does not cause joint formation or leakage.
- It has an elastomeric hydrophobic structure.
- It is resistant to cold and maintains its elasticity down to -40°C.
- It is permeable to water vapor. Having a breathable structure it does not cause accumulation in the substrate.
- Even if 400 BT-1K is damaged in any way, the damaged part is easily repaired in a short time.
- Provides effective resistance against chemicals.
- It is suitable for vertical applications, it never sags.

CONCRETE SUBSTRATE STANDARDS

- Hardness: R28 = 15 Mpa
- Humidity : W < 10%
- Temperature : +5°C and +35°C
- Relative Humidity : < 85%

For detailed information, please consult our technical department.

APPLICATION PROCEDURE

• SURFACE PREPARATION

Before the application, in order to ensure a good adhesion, 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 thoroughly dried. Surface defects should be repaired with suitable products.

• PRIMING

For absorbent surfaces such as concrete, cement or screed, PU PRIMER 200 or EPOXY PRIMER should be used. AQUA PU PRIMER 2K or EPOXY PRIMER WB should be preferred on damp surfaces. TILE PRIMER should also be used on non-absorbent surfaces such as metal, ceramic or old coatings. Please examine primer table for detailed information.

• APPLICATION

Open the package of the product and mix it with a low speed mixer for 2-3 minutes. The material should be applied to the previously primed surface in minimum 2 coats by pouring it with the help of a roller or brush until the entire surface is covered. After the first layer is applied, the second layer should be applied within minimum 3 hours and maximum 24 hours later.

APPLICATION REMARKS

- 400 BT-1K It should be covered after application.
- Not recommended for loose and unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated water.

CONSUMPTION

- First Layer (min.): 0,75 - 0,85 Kg/m²
- Second Layer (min.): 0,75 - 0,85 Kg /m²
- Total Consumption (min.): 1,50 - 1,70 Kg/m²

CLEANING

After the application, all tools should be cleaned with CLEVER 001. Rollers and brushes should be disposed of.

PACKAGING AND COLOR

It is black and in 20 kg metal buckets.

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 fires. 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. For more detailed information, ask for the Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

TECHNICAL DATA		
QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	Single Component Bitumen Polyurethane
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1,05 - 1,10 gr/cm ³
Viscosity	ASTM D 4287 (+25°C)	20.000 - 30.000 cp
Flash Point	ASTM D93	42°C
Gloss	Clever Lab.	Semi Gloss
Application Temperature	Clever Lab.	+5°C to +35°C
Heat Resistance	Clever Lab.	200 days at +80°C
Shock Heat Resistance	Clever Lab.	150°C - Passed
Solid Content	Clever Lab.	%85 (± 5)
Hardness	ASTM D2240, DIN 53505, EN ISO R868	35 (Shore A)
Elongation at Break	ASTM D 412 (+23°C)	> %600
Tensile Strength	ASTM D 412 (+23°C)	3 N/mm ²
Adhesion to Concrete	TSE EN 1542 (+23°C)	> 2 N/mm ²
Thermal Resistance (200 days at 80 °C)	EOTA TR011	Passed
QUV	ASTM G53	1000 Hours - Passed
Service Temperature	Clever Lab.	-40 °C to +80°C
Tack Free Time	25°C / 55% RH	1,5 to 2,5 Hours
Recoat Time	Clever Lab.	3 to 24 Hours
Chemical Resistance (Sodium Hypochlorite NaOCl 5% at 10 days)	Clever Lab.	Not Effected
Hydrolysis Resistance (Potaisum Hydroxide, 8%,10 days at 50 °C)	Clever Lab.	Not Effected
H ₂ O Absorption (10 Days)	Clever Lab.	< %0,9

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



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