

DESCRIPTION

400 BT-2K; Two component, bitumen extended polyurethane based, elastic cold applied liquid waterproofing membrane. It produces a highly elastic membrane with its excellent adhesion to many type of surfaces.

FEATURES AND ADVANTAGES

- Simple application,
- When applied forms seamless membrane without joints,
- It has excellent elongation properties,
- It has root resistant and it is certified for root resistant,
- Resistant to slack water and frost,
- Its low modulus gives to it excellent substrate crack-bridging properties,
- High water vapor permeability,
- It provides permanent elasticity up the -40 °C to +90 °C,
- Resistance in the cold: The film remains elastic even down to -40 °C,
- Resistant to chemicals,
- It is used as a joint sealant,
- Elastomeric hydrophobic based,
- Excellent mechanical properties, high elongation, tensile and tear strength, high abrasion resistance.

TYPICAL APPLICATIONS

- Non-potable water tanks,
- Basements,
- Foundations,
- Bridge platforms,
- Cut-and-cover tunnels,
- Bathroom, terraces and roofs (under tile waterproofing),
- Concrete structures,
- Retaining walls,
- Gypsum and cement boards,
- Polyurethane insulation foams,
- Asphalt membranes,
- Green roofs and flower pots,
- Light roofing (metal and fibrous cement based).

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 PU PRIMER 200 or EPOXY PRIMER (Humidity of the concrete should not exceed %5). Or for damp concretes PU PRIMER 300-2K or EPOXY PRIMER WB is suggested as a moisture barrier. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with PU PRIMER 300-2K.

• APPLICATION

Firstly mix the portions (A and B) separately by a low speed mixer for a couple of minutes. Then mix the portions in same container. The pot life of the mixture is 30-35 minutes at +20 °C, pot life may change depending on temperature. 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. If this time expired or layers are not adhered well, PRIMER 100 should be applied.

For single thick coat, min consumption should be 1.50 - 2.00 lt/m²

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 - 1,00 lt/m²

Second layer min.: 0,75 - 1,00 lt/m²

Total min. consumption: 1,50 - 2,0 lt/m²

CLEANING OF TOOLS

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

PACKAGING AND COLORS

20 Lt (A) + 20 Lt (B)

7,5 Lt (A) + 7,5 Lt (B) Sealed Pails

SHELF LIFE

Can be kept for 12 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

Coating Type	Two Component Bituminous Polyurethane
Density ASTM D 1475/EN ISO 2811-1 (+20°C)	1,00 gr/cm ³ ±0.02
Viscosity ASTM D 2196-86/EN ISO 3219 (+25°C)	4000-5000cp (A+B)
Mixing Ratio	1/1 by volume
Gloss	Semi Gloss
Application Temperature	+5 °C ile +30 °C
Thinner	If thinning is required, use SOLVENT 05
Temperature Resistance	200 days at 80°C & 150°C Dry (shock)
Solid	%85
Hardness ASTM D2240, DIN 53505, EN ISO 868	35 (Shore A)
Elongation Percentage (+23°C) (ASTM D 412)	≥ %2000
QUV (ASTM G154)	1000 hours
Pot Life	30 dk
Tensile Force at Break (+23°C) (ASTM D 412)	≥ 3 N/mm ²
Adherence on Concrete (+23°C) (TSE EN 1542)	≥ 1 N/mm ²
Method of Application	Roller, Brush or Airless Spray
Drying Time Potlife and drying time depend on temperature and quantities mixed	+25 °C , %55 RH Touch Dry: 5 Hrs Recoating: 12-24 Hrs Fully Cured: 7 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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