DESCRIPTION

CLEVER BASE 400 BT; Two component, fast curing PU based bituminous elastic, cold applied liquid membrane. It produces a highly elastic membrane with its excellent adhesion to many type of surfaces.

FEATURES

- Simple application.
- When applied forms seamless membrane without joints.
- It has excellent elongation properties.
- Fast curing.
- Resistant to slack water and resistant to frost .
- Its low modulus gives it excellent substrate crack-bridging properties.
- Excellent adhesion on almost any surface, with or without the use of special primers.
- It provides permanent elasticity up the -40 ˚C.
- Resistance in the cold: The film remains elastic even down to -40 ˚C.
- Resistant to chemicals.
- Can also be used as a joint sealant.
- 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 tiles waterproofing),
- Concrete waterproofing
- Retaining walls,
- Gypsum and cement boards,
- Polyurethane insulation foams,
- Asphalt EPDM membranes,
- Green roofs and flower pots
- Light roofing made of metal or fibrous cement,

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 PU PRIMER 200 or CLEVER EPOXY PRIMER (Humidity of the concrete should not exceed %5). Or for damp concretes CLEVER PU PRIMER 300 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 minimum two, coats. Do not exceed 48 hours between each coats. For a better interlayer adhesion, use CLEVER PU PRIMER 200.

MIXING - THINNING

CLEVER BASE 400 BT; is supplied in two parts in two different containers with their proper mixing ratio and two portions are mixed. Add 20 lt Component A to 20 lt Component B, and mix using a low speed mixer until a homogenous mixture is achieved. The pot life is 30-35 minutes at 20 ˚C, pot life may change depending on temperature.

APPLICATION

CLEVER BASE 400 BT; Apply the mixture with a brush, a spatula ora roller in at least two layers. After first layer is applied minimum 12 hours max 24 hours, second layer should be applied. Do not exceed 48 hours between each coats 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. it can be applied as thick single coat min 1.5-2.0 it / m^2 should be applied.

CONSUMPTION

Each layer min. : 0,75 - 1,00 lt/m^2
Min. two coats should be applied.
Total min. consumption: 1,5 - 2,0 lt/m^2

PACKAGING AND SHELF LIFE

20 Lt + 20 Lt
7,5 Lt + 7,5 Lt
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	
Coating type	Bituminous Polyurethane
Color	Black
Density ASTM D 1475/EN ISO 2811-1(20°)	1 g/cm^3 ±0.02
Viscosity ASTM D 2196/EN ISO 3219(25°)	3000-3500cp (A+B)
Packaging	20 (A) Lt + 20 (B) Lt 7,5 (A) Lt + 7,5 (B) Lt
Mixing ratio	1/1 by volume
Gloss	Semi Gloss
Application Temperature	+5 ˚C to +35˚C
Thinner	Thinning is not recommended
Temperature resistance	200 days at 80˚C & 150˚C Dry (shock)
Shelf Life	12 Months
Theoretical spreading rate	1,5-2,0 lt/m^2
Hardness ASTM D2240,DIN 53505,ISO R 868	35 (Shore A)
Elongation Percentage (23°C)(ASTM D 412)	≥ %2000
QUV (ASTM G53)	1000 hours
Pot Life	30 minutes (at 20°C)
Tensile Force at Break (23°C)(ASTM D 412)	≥ 2 N/mm^2
Adherence on Concrete (23°C)(ASTM D 903)	≥ 2 N/mm^2
Method of application	Roller, brush and airless spray
Drying Time Potlife and drying time depends on temperature and quantities mixed	23 °C, %55 RH **Touch dry:** 2 Hrs **Recoating:** 6- 24 Hrs **Fully cured:** 7 days