

DESCRIPTION

PU 120; One component, UV stable, PU based liquid waterproofing membrane. It produces a durable and highly elastic layer curing with humidity.

FEATURES AND ADVANTAGES

- UV and chemical resistant,
- Simple application (brush, roller or airless spray),
- When applied, it forms seamless membrane without joints,
- As it is pure polyurethane, it can continually contact with water,
- Maintains its mechanical properties over a temperature span of -40°C to +90°C,
- Provides water vapor permeability, so the surface can breathe,
- If PU 120 gets damaged, it can be easily repaired locally within minutes.

TYPICAL APPLICATIONS

- Irrigation channels,
- Asphalt membranes.
- Gypsum and cement boards,
- Waterproofing of exposed roofs,
- Indoors and outdoors,
- Terraces, verandas and balconies,
- Under tile waterproofing, (Wet areas, bathrooms)

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 REPAIR (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 portion by a low speed mixer for 2-3 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 minimum 6 hours max. 24 hours after application of first layer. If this time expired or layers are not adhered well. PRIMER 100 should be applied. Then second layer can be applied. In order to make drying faster, ACC catalyst can be mixed into 1C membrane in cold weathers.

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 - 0,90 kg/m²

Second layer min.: 0,75 - 0,90 kg/m²

Airless Spray, per each layer: 0,75 - 0,90 kg/ m²

Total min. consumption: 1,50 - 1,80 kg/m²

CLEANING OF TOOLS

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

PACKAGING AND COLORS

5 Kg - 25 Kg Sealed Pail

White and Grey Colors

SHELF LIFE

Can be kept for minimum 12 months in the original sealed 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	One Component Polyurethane
Density ASTM D 1475/EN ISO 2811-1 (+20°C)	1,40 - 1,50 gr/cm ³
Viscosity ASTM D 2196-86/EN ISO 3219 (+25°C)	3000-5000cp
Water Vapor Permeability (EN ISO 7789)	0,8 gr/m ² per hour
Gloss	Semi Gloss
Application Temperature	+5°C ile +30°C
Thinner	If thinning is required, use SOLVENT 05
Temperature Resistance	100 days at +80 °C & +200 °C Dry (shock)
Solid	%90
Hardness ASTM D2240, DIN 53505, EN ISO 868	70 (Shore A)
Elongation Percentage (+23°C) (ASTM D 412)	≥ %400
Elongation Percentage (-25°C) (ASTM D 412)	≥ %300
QUV (ASTM G154)	2000 hours
Tensile Force at Break (+23°C) (ASTM D 412)	≥ 5,5 N/mm ²
Adherence on Concrete (+23°C) (TSE EN 1542)	≥ 2 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: 4 Hrs Recoating: 6-24 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.



CLEVER POLYMERS & CONSTRUCTION CHEMICALS INC.
Head Office: Atatürk Mah. Ekinciöğlü Sk. No:2 Ataşehir / İSTANBUL / TURKEY
 Phone: +90 (216) 456 65 85 Fax: +90 (216) 456 65 86
Factory: Mermerciler Sanayi Sitesi 34. Cad. No:5
 Köselers Köyü 41455 Dilovası / KOCAELİ / TURKEY
 Phone: +90 (262) 728 14 12 Fax: +90 (262) 728 14 13
 e-mail: info@cleverpolymers.com

www.cleverpolymers.com