PRODUCT TECHNICAL DATA SHEET

PU 120

TS EN 1504-2

Single-Component, Polyurethane Waterproofing Liquid Membrane

DESCRIPTION
PU 120 is a single component, polyurethane based, liquid waterproofing membrane. Creates an elastic and durable film layer by curing with the humidity in the air.

APPLICATION AREAS
- Terraces, verandas, and balconies
- Wet areas under coverings (bathrooms, kitchens, etc.)
- Interior and exterior application areas
- Irrigation channels
- Asphalt membranes
- Gypsum and cement boards
- Covered roof systems

FEATURES AND ADVANTAGES
- Easy to apply (brush, roller, or spray).
- Forms a seamless, leakproof film layer after application.
- Resistant to continuous water exposure.
- Maintains mechanical properties between -30°C and +90°C.
- Provides effective water vapor permeability; breathable structure prevents moisture accumulation beneath the layer.
- When damaged, it can be quickly repaired with PU 120.
- UV resistance

SUBSTRATE STANDARDS
Concrete Class: C20/25
Moisture: W < 5%
Temperature: +5°C to +35°C
Relative Humidity: < 85%
For detailed information, please consult our technical department.

APPLICATION PROCEDURE

• SURFACE PREPARATION
All contaminants that may weaken adhesion-such as oil, grease, paraffin residues, cement laitance, loose particles, release agents, and cured old membranes-must be completely removed from the surface before application. After washing the surface with high-pressure water, it must be thoroughly dried. Any surface defects must be repaired using suitable repair materials.

• PRIMING
PU PRIMER 200 or ClvSeal EP PRIMER 617 must be used on absorbent substrates such as concrete, cement, or screed. ClvSeal EP PRIMER 625 should be preferred on damp substrates. PRIMER T must be used on non-absorbent surfaces such as metal or ceramic. Please refer to the primer selection table for detailed information.

• APPLICATION
Before use, the material must be mixed for 2-3 minutes with a low-speed mixer after opening the package. For spray application, a maximum of 5-7% CLEVER 001 should be added. The preprimed surface must be coated by pouring the product and spreading it with a roller, squeegee, or brush in a minimum of two coats until the entire area is fully covered. After the first coat has been applied, the second coat must be applied after a minimum of 6 hours and a maximum of 24 hours. If the second coat cannot be applied within the specified time, the CLEVER POLYMERS technical office should be consulted for guidance and solutions before proceeding. In cold weather, the use of ACC CATALYST is recommended to accelerate the curing process. For thinning, please consult our technical department.

APPLICATION REMARKS
- It should be covered with PU 650 TC-1K or PU 600 TC-1K Aliphatic flexible top coat material in order to extend the strength and shelf life of polyurethane based waterproofing products which are applied to areas exposed to open air conditions or pedestrian traffic.
- Not recommended for unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated water.

CONSUMPTION
- First Layer (min.) : 0,60 - 0,75 kg/m^2
- Second Layer (min.) : 0,60 - 0,75 kg/m^2
- Airless Spray (for each layer) : 0,75 - 0,90 kg/m^2
- Total Consumption (min.) : 1,20 - 1,50 kg/m^2

PACKAGING AND COLOR
Grey and in 5 kg and 25 kg metal pail.

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

STORAGE AND SHELF LIFE
Shelf life: 12 months in unopened original packaging stored between +5°C and +30°C. Once opened, it should be used as soon as possible.

SAFETY&HEALTH
The product must be used only in wellventilated areas. It must not come into contact with open flames. Smoking is strictly prohibited during application. Protective gloves, safety goggles, and a mask must be worn during use. In case of eye contact, rinse immediately with plenty of water. Adequate ventilation must be ensured throughout the application. For more detailed information, request the Material Safety Data Sheet (MSDS) from the Clever Polymers technical department

TECHNICAL SPECIFICATION

FEATURE	TEST METHOD	VALUE
Coating Type	Clever Lab.	Single-Component Polyurethane
Density	ASTM D1475 / EN ISO 2811-1 (+20°C)	1.45 ± 0.05 g/cm^3
Viscosity	ASTM D4287 (+25°C)	3,000 – 6,000 cP
Water Vapor Permeability	ASTM E96	0.8 g/m^2·hour
Gloss	Clever Lab.	Semi-Gloss
Application Temperature	Clever Lab.	+5°C to +35°C
Heat Resistance	Clever Lab.	100 days at +80°C
Thermal Shock	Clever Lab.	200°C – Passed
Solid Content	Clever Lab.	85% (±5)
Hardness	ASTM D2240	65 Shore A
Elongation at Break	ASTM D412 / DIN 52455 (+23°C)	>400%
Tensile Strength	ASTM D412 / DIN 52455 (+23°C)	>5 N/mm^2
Adhesion to Concrete	ASTM D4541	>2 N/mm^2
QUV	ASTM G53	2000 hours – Passed
Service Temperature	Clever Lab.	-30°C to +90°C
Initial Cure Time	25°C / 55% RH	6 hours
Recoat Time	Clever Lab.	6 – 24 hours

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

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