

DESCRIPTION

PU 600 TC-1K is a single component, polyurethane based, high UV resistant aliphatic top coat membrane. It is elastic top coat material for PU waterproofing membranes. It forms an elastic and transparent film layer curing with the humidity in the air. Due to its aliphatic structure, it protects the color of the substrate when exposed to sunlight, does not fade or turn yellow.

TYPICAL APPLICATIONS

- Areas exposed to pedestrian traffic,
- As elastic top coat material for polyurethane waterproofing,
- Industrial floors,
- On materials such as wood, stone, marble or brick,
- Terraces, porches and balconies,
- Exposed roofs.

FEATURES AND ADVANTAGES

- Easy application (with brush, roller or spray).
- UV resistance.
- Due to its aliphatic structure, it protects the color of the substrate when exposed to sunlight, does not fade or turn yellow.
- When applied it forms a single piece membrane that does not cause joint formation or leakage.
- Provides good adhesion to the surface.
- High resistance against stagnant water.
- It preserves its mechanical properties between -40 °C and +90°C.
- It has excellent chemical resistance.
- It has excellent mechanical properties as well as excellent tensile and tear resistance.

APPLICATION PROCEDURE

• SURFACE PREPARATION

Before the application to ensure a good adhesion oil, grease, paraffin wastes, cement grout, loose particles, mold release areas, cured old membranes should be removed from the surface. After washing the surface with high pressure water, it should be dried. Surface defects should be repaired with suitable products.

• PRIMING

PU PRIMER 200 should be used for absorbent surfaces such as concrete, cement or screed. It can be applied by brush. There is no need for a primer as a top coat in Polyurethane and Polyurea applications.

• APPLICATION

Before the application, mix it with a low-speed mixer for 2-3 minutes. While mixing the product, special care should be taken not to let air into the mix. If air is mixed into the material, visible air bubbles will occur after the material is cured on the floor. The material is poured over the primed surface and spread over the entire surface with the help of a roller or brush.

APPLICATION REMARKS

- Not recommended for unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated waters.
- If polyurethane waterproofing materials will be coated, recoat time should be passed.

CONSUMPTION

Total Consumption (min.): 0,20 - 0,60 lt/m²

CLEANING

After the application, all tools should be cleaned with water. Rollers and brushes should be disposed.

PACKAGING AND COLOR

It is transparent in 4 lt and 20 lt 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 fire. 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. Adequate ventilation is required during application. For more detailed information, ask for Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

TECHNICAL DATA

| QUALIFICATION | METHOD | FEATURE |
|---|--------------------------------------|--|
| Coating Type | Clever Lab. | Single Component Aliphatic Polyurethane |
| Density | ASTM D 1475 / EN ISO 2811-1 (+20°C) | 1,00 gr/cm ³ (±0,05) |
| Viscosity | ASTM D 2196-86 / EN ISO 3219 (+25°C) | 400 - 800 cp |
| Water Vapor Permeability | ASTM E96 | 0,8 gr/m ² hour |
| Gloss | Clever Lab. | Glossy |
| Application Temperature | Clever Lab. | Between +5°C - +35°C |
| Heat Resistance | EOTA TR011 | 100 days at +80°C |
| Shock Heat Resistance | Clever Lab. | 200°C |
| Hardness | ASTM D2240, DIN 53505, EN ISO R868 | 40 (Shore D) |
| Elongation at break | ASTM D 412 (+23°C) | > %300 |
| Tensile Strength | ASTM D 412 (+23°C) | > 40 N/mm ² |
| Adhesion to Concrete | TSE EN 1542 (+23°C) | > 2 N / mm ² |
| QUV | ASTM G53 | 2000 Hours - Passed |
| Service Temperature | Clever Lab. | Between -40 °C and +90°C |
| Tack Free Time | 25°C / 55% RH | 6 - 8 hour |
| Recoat Time | Clever Lab. | 24 hour |
| Hydrolysis (Potasium Hydroxide 8 %, 10 days at 60 °C) | Clever Lab. | No significant Change Observed In Elastomeric Property |
| Hydolysis (Sodium Hipochlorite 5%, 10 days) | Clever Lab. | No significant Change Observed In Elastomeric Property |
| Water Absorbancy | Clever Lab. | < %1,4 |

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



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