

**DESCRIPTION**

PU 130 is a single component, polyurethane based, economical liquid waterproofing membrane. Easy to apply and creates an elastic and durable film layer by curing with the humidity in the air.

**TYPICAL APPLICATIONS**

- Covered areas,
- Gypsum and cement panels,
- Covered roofs,
- Indoor and outdoor applications,
- Terraces, verandas and balconys,
- Wet surfaces under coating. (Bathroom, kitchen, etc.)

**FEATURES AND ADVANTAGES**

- It has low cost and high performance.
- Easy to apply (by brush, roller or spray).
- When applied it forms a single piece membrane that does not cause joint formation or leakage.
- It is resistant to continuous water contact.
- Preserves its elasticity and mechanical properties between -40°C and +60°C.
- It is permeable to water vapor. Having a breathable structure is does not cause accumulation in the substrate.
- When the material is damaged, it can be repaired quickly with PU130.
- Provides excellent adhesion to the surface.
- When fully cured, it does not contain toxic substances.

**CONCRETE SUBSTRATE STANDARDS**

- Hardness: R28 = 15 Mpa
- Humidity : W <10%
- Temperature : +5°C and +35°C
- Relative Humidity : <85%

For detailed information, please consult our technical department.

**APPLICATION PROCEDURE****• SURFACE PREPARATION**

In order to ensure a good adhesion oil, grease, paraffin waste, cement grout, loose particles, mold release agents, cured old membranes should be removed from the surface before the application. The surface should be thoroughly dried after washing with high pressure water and should be free from damp. Surface defects and cracks should be repaired with suitable products.

**• PRIMING**

For absorbent surfaces such as concrete, cement or screed, PU PRIMER 200 or EPOXY PRIMER should be used. AQUA PU PRIMER 2K or EPOXY PRIMER WB should be preferred on damp surfaces. TILE PRIMER should be used on non-absorbent surfaces such as metal, ceramic or old coatings. Please examine primer table for detailed information.

**• APPLICATION**

Before using, the package should be opened and mixed with a low speed mixer for 2-3 minutes. For spray application, add CLEVER 001 at a maximum rate of 5% - 7%. Primed surface should be covered in minimum 2 coats by pouring the product until the entire surface is covered with a roller, squeegee or brush. After the first layer is applied, the second layer should be applied within minimum 8 hours and maximum 24 hours later. If the application has not been made within the specified time for the second layer, please consult the technical office of CLEVER POLYMERS for information and solutions before application. In order to increase the acceleration of drying in cold weather, it is recommended to use ACC CATALYST if desired. If ceramic is to be coated on it, silica sand should be poured on it before the second layer dries. Consult our technical department for thinning.

**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 loose and unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated water.

**CONSUMPTION**

- First Layer (min.) : 0,70 - 0,90 kg/m<sup>2</sup>
- Second Layer (min.) : 0,70 - 0,90 kg/m<sup>2</sup>
- Airless Spray (for each layer) : 0,75 - 1,00 kg/m<sup>2</sup>
- Total Consumption (min.) : 1,40 - 1,80 kg/m<sup>2</sup>

**CLEANING**

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

**PACKAGING AND COLOR**

It is grey and in 5 kg and 25 kg metal buckets.

**STORAGE AND SHELF LIFE**

The product can be stored for a maximum of 12 months in unopened original pail at temperatures between +5°C and +25°C. Opened product should be used at the soonest.

**PRECAUTIONS**

The product should be used in well ventilated environments. The product should not be in contact with open fires. 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. For more detailed information, ask for the Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.



# TECHNICAL DATA

| QUALIFICATION            | METHOD                              | FEATURE                        |
|--------------------------|-------------------------------------|--------------------------------|
| Coating Type             | Clever Lab.                         | Single Component Polyurethane  |
| Density                  | ASTM D 1475 / EN ISO 2811-1 (+20°C) | 1,40 ± 0,05 gr/cm <sup>3</sup> |
| Viscosity                | ASTM D 4287 (+25°C)                 | 2500 - 5000 cp                 |
| Water Vapor Permeability | ASTM E96                            | 0,8 gr/m <sup>2</sup> hour     |
| Application Temperature  | Clever Lab.                         | +5°C to +35°C                  |
| Solid Content            | Clever Lab.                         | %85 (±5)                       |
| Hardness                 | ASTM D2240, DIN 53505, EN ISO R868  | 60 (Shore A)                   |
| Elongation at Break      | ASTM D 412 (+23°C)                  | %1000                          |
| Tensile Strength         | ASTM D 412 (+23°C)                  | > 2 N/mm <sup>2</sup>          |
| Adhesion to Concrete     | TSE EN 1542 (+23°C)                 | > 2 N / mm <sup>2</sup>        |
| Service Temperature      | Clever Lab.                         | -40°C to +60°C                 |
| Tack Free Time           | 25°C / 55% RH                       | 2-3 Hours                      |
| Recoat Time              | Clever Lab.                         | 6 to 24 Hours                  |

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

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