



## ***Proof Guard PU 1200 SF***

### **Product Description**

It is a two component, polyurethane based, solvent free, highly elastic, decorative, liquid waterproofing membrane with crack bridging capability. It forms a seamless, long lasting water impermeable membrane. It is applied very easily and It can tolerate minor building movements and newly formed cracks.

### **Product uses:**

- Excellent adhesion on different kind of surfaces, such as concrete, mosaic, metal, galvanized, asphalt etc.
- Waterproofing on basements, foundations, bridges platforms, irrigation channels.
- Excellent waterproofing for underground construction.
- Waterproofing for water tanks
- On polyurethane insulation boards.
- As a waterproofing system on balconies, terrace, flower pots and roof-top gardens.
- It can be used as waterproofing material for sewage sedimentation ponds.

### **Properties**

- Solvent free with zero VOC
- When applied forms seamless membrane without joints.
- Crack-bridging up to 2 mm, even at -10°C.
- Maintains its mechanical properties over a temperature span of - 40 °C to + 90°C.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Resistant to frost.
- Provides excellent adhesion to almost any type of surface.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- Provides excellent adhesion to almost any type of surface.
- Provides excellent thermal resistance, it never turns soft.
- Provides water vapor permeability, so the surface can breathe.
- Resistant to root penetration, so it can be used in green roofs.

### **TECHNICAL PROPERTIES**

<i>Appearance/Color</i>	Glossy / RAL Color Card
<i>Density:</i>	1.35 kg/liter
<i>Consumption:</i>	1-1.5 ltr/ m <sup>2</sup> (2-2.5 kg/m <sup>2</sup> )
<i>Tensile strength:</i>	>2,2 N/mm <sup>2</sup>
<i>Elongation:</i>	400 % ((ASTM D-412) 73 °F (23 °C) 50 % R.H.)
<i>Water Vapor Transmission:</i>	0.8 gr/m <sup>2</sup> -hr (ASTM E96)
<i>Abrasion Resistance:</i>	6 mg loss ((ASTM D-4060) Taber Abraser, CS-17 Wheel: 1000 g (2.2 lb)/1000 cycles)
<i>Crack Bridging Capacity:</i>	≥2mm
<i>Tensile Strength:</i>	1,320 psi ((ASTM D-412) 73 °F (23 °C) 50 % R.H.)
<i>Hardness, Shore A:</i>	80 +/- 5 ((ASTM D-2240) 73 °F (23 °C) 50 % R.H.)
<i>Tear Strength</i>	218 pli ((Die C, ASTM D-624) 73 °F (23 °C) 50 % R.H.)
<i>Service Temperature:</i>	-40°C to 90°C
<i>Application Temperature:</i>	Between 5°C to 35°C



## Application Details

**Application method:** Brush / Roll / Airless Spray- Metal trowel

## **Surface Preparation:**

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull strength of 1.5N/mm<sup>2</sup>. Substrate moisture should not exceed 5%. New concrete structures need to dry for at least 28 days. The substrate must be clean and free from all traces of loose materials, old coatings, curing compounds, release agents, laitance, oil grease etc. Structurally unsound layers or surface contaminants must be mechanically removed by abrasive blast tracking, shot blasting, scarifying, or grinding. Substrates heavily impregnated with oil must be cleaned by torching, using suitable solvent or degreaser substance. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. All ducts, loose and friable material must be completely removed from all surfaces before application of product; preferably by brush and/or vacuum

## **PRECEDING COAT:**

➤Top Floor TS 500-SB

➤Poly Clear PU 080

## **Important Remarks:**

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm<sup>2</sup> compression resistance and minimum 1, 5 N/mm<sup>2</sup> tensile strength.
- Applications below 10°C should be avoided.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

## **Shelf life & Storage:**

8 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

## **Safety:**

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## **Legal Notice:**

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