



Proof Guard PL 200 C

Product Description

A solvent free two component, easy and cold applied polyurea water proofing material. The material cures rapidly and forms a bubble free membrane in less than 2 hours. This product, upon polymerization, gives an elastic, seamless coating, fully bonded to the substrate. It is based on pure elastomeric hydrophobic resins, which result in excellent mechanical, chemical, thermal and natural element resistance properties.

Product uses:

- Waterproofing of Roofs.
- Waterproofing of Balconies, Terraces and Verandas.
- Waterproofing of Wet Areas (under-tile) in Bathrooms, Kitchens, Balconies, Auxiliary Rooms, etc.
- Waterproofing of Pedestrian traffic Decks in combination with the suitable topcoat.
- Waterproofing and protection of Concrete constructions.
- Waterproofing and protection of polyurethane insulation foams.
- Waterproofing and protection of light roofing made of metal or fibrous cement.
- Waterproofing and protection of asphalt membranes.
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Properties

- Fast curing.
- Easy to apply (by roller or squeegee)
- Low temperature application.
- Resistance to cold: The film remains elastic even down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Crack bridging ability.
- Thick layer (up to 2 kg/m²) applications possible in one coat.
- High resistance to water.
- Provides excellent thermal resistance, it never turns soft.
- Maintains its mechanical properties over a temperature span of -30° C to +90° C.
- Provides excellent adhesion to almost any type of surface.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- Low cost.



TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Gray (other color are available based on quantity)
<i>Density:</i>	1.3 kg/liter 0.05 kg/L (Changes depending on the color)
<i>Volume solids %:</i>	100 %
<i>Theoretical spreading:</i>	0.67 M ² / liter. / 0,58 kg / m ² (1.5 mm dry film thickness)
<i>Consumption:</i>	1,5 ltr/ m ² (1,73 kg/m ²)
<i>Recommended DFT§</i>	1500 – 2500 micron (1,5 – 2,5 mm)
<i>Tensile strength:</i>	> 4,5 N/ mm ²
<i>Elongation:</i>	>500% (ASTM D412 / EN-ISO527-3)
<i>VOC content §</i>	0 (solids content 100%)
<i>Adhesion Strength:</i>	>2.5 N/mm ²
<i>Hardness (Shore A) at 23°C:</i>	65
<i>Light Pedestrian Traffic Time:</i>	6-8 hours
<i>Fully cured:</i>	7 days 20°C/68°F
<i>Service Temperature:</i>	-40°C to 90°C
<i>Application Temperature:</i>	Between 5°C to 35°C

Application Details

<i>Application method:</i>	Brush / Roll / Squeegee
<i>Thinner:</i>	Do not thin the product
<i>Mixing Ratio:</i>	2 Component A : 1 Component B (By Weight)

Surface Preparation:

For concrete: The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

Ceramic substrate: ceramic surfaces should not have empty joints or loose elements or parts. These should be filled with Polyurethane mastic, for rapid and efficient cleaning of the surface use pressurized water and check that it evaporates completely. Also, verify that all dust and other physical contaminants have been eliminated. Next, apply the one coat of Epoxy primer.

PRECEDING COAT:

- Top Floor 650 MT
- Poly Clear PU 080



Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² 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:

12 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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