



Hydrothane WB

Water-Based Aliphatic Polyurethane Waterproofing Coating

Product Description

Hydrothane WB is a premium-grade, single-component, water-based aliphatic polyurethane waterproofing coating that cures to form a seamless, highly elastic, UV-resistant membrane. It provides excellent waterproofing performance for exposed roofs, terraces, balconies, concrete structures, and various construction substrates while maintaining long-term color stability and weather resistance.

Product uses:

- Exposed roofs
- Concrete roofs and terraces
- Balconies
- Metal roofs
- Cementitious substrates
- Polyurethane foam protection
- Parapet walls and details
- Wet areas
- Renovation waterproofing systems

Properties

- Water-based and low VOC
- Excellent UV resistance
- Aliphatic polyurethane technology
- High elasticity and crack-bridging ability
- Seamless waterproof membrane
- Excellent weathering resistance
- Good abrasion resistance
- Excellent adhesion to concrete and masonry
- Non-yellowing finish
- Easy roller, brush, or airless spray application
- Environmentally friendly

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Satin / White, Grey, Custom Colors
<i>Density:</i>	1.25± 0.05 kg/liter
<i>Solids by Volume:</i>	60 ± 3%
<i>Spreading rate :</i>	0.6 – 0.85 m ² /ltr (0.5- 0.7 m ² / kg)
<i>Recommended thickness :</i>	700 -1000 micron
<i>VOC Content:</i>	< 50 g/L
<i>Tensile strength:</i>	≥ 3.0 MPa (ASTM D412 / EN-ISO527-3)
<i>Elongation:</i>	≥ 400% (ASTM D412 / EN-ISO527-3)
<i>Crack Bridging Capacity:</i>	Class A5
<i>Hardness, Shore A:</i>	65±5 (ASTM D 2240/ DIN 53505)
<i>Adhesion to Concrete:</i>	≥2MPa (ASTM D4541)
<i>Surface Dry:</i>	1-2 Hours

Technical Data Sheet



<i>Recoat Time:</i>	4-6 Hours
<i>Light Foot Traffic:</i>	24 Hours
<i>Full Cure:</i>	7 Days
<i>Service Temperature:</i>	-20°C to +80°C
<i>Application Temperature:</i>	Between 5°C to 35°C

Application Details

<i>Application method:</i>	Brush / Roll / Airless Spray
<i>Thinner:</i>	Fresh Water
<i>Thinner Amount:</i>	Brush : Do not thin Roll: 10 % Airless Spray 5-7 %

Surface Preparation:

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull strength of 1.5N/mm². 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:

➤ Poly Clear PU 080

Reinforcement

Embed polyester reinforcement fleece in critical areas such as joints, corners, drains, and cracks.

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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