TN-PUA50

COLD-APPLIED POLYUREA

PRODUCT CODE: TPUA50

INSTRUCTIONS

The **TN-PUA50** is a two-component, elastic, fast-curing, cold-applied pure liquid polyurea system. It is specially designed for waterproofing roofs and protecting concrete, metal, and asphalt structures. Upon curing, it forms a continuous, 100% waterproof membrane with no seams or joints, offering high resistance to UV rays, mechanical wear, and moderate chemical attack.

APPLICATION INSTRUCTIONS

1. Surface Preparation: The surface must be completely clean, dry, structurally sound, and free of dust, grease, oils, release agents, or any contaminants that could affect adhesion. Specifically, an appropriate anchor profile is recommended.
2. Mixing: Two-component product. Mix Component A and Component B in the specified ratio using a low-speed mechanical mixer (300–400 rpm) for at least 3 minutes until a completely homogeneous mixture with a uniform color is obtained.
3. Application: Apply using a roller, brush, or suitable airless spray equipment. It is recommended to apply two cross-coats to ensure uniform thickness and optimal protection.
4. Drying Time: Touch-dry in 2–4 hours. Fully cured for foot traffic after 24 hours and fully mechanically/chemically cured after 7 days (values calculated at 25°C and 50% RH).

KEY BENEFITS

- Excellent elongation and ability to bridge existing cracks.
- Excellent thermal stability and weather resistance (UV rays).
- Applied manually at room temperature, without the need for high-pressure hot-spray equipment.
- Creates a continuous, monolithic membrane without overlaps or weak points.
- High adhesion to multiple substrates (concrete, metal, wood, mortar).

TECHNICAL SPECIFICATIONS

Property	Typical Value	Test Method
Solids Content	> 95%	ASTM D2697
Pot Life	35 - 45 minutes (at 25 °C)	-
Tensile Strength	> 12 MPa	ASTM D412
Elongation at Break	> 400%	ASTM D412
Shore A Hardness	75 - 80	ASTM D2240
Theoretical Coverage	1.5 to 2.0 kg/m² (recommended thickness)	Depends on porosity

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