



## DESMOPOL T - TRANSPARENT AND ALIPHATIC POLYURETHANE WATERPROOFING MEMBRANE

Single-component liquid, polyurethane solvent-based, moisture-cured to form a solid, aliphatic and transparent, completely adhered to the substrate, seamless, without joints or overlaps, watertight and waterproof membrane to be used on new buildings or refurbishments **for pedestrian use**.

### USES

For application in the following situations:

- Waterproofing of flat, low or steep-slope roof, balconies, and overhangs

**NOTE:** call our technical department about the application to other substrates or scopes of use

Density	1.00±0.05 g/cm <sup>3</sup>
Recommended minimum thickness	1.00 mm (1.42 kg/sqm)
Tack-free time	± 6 hours
Tensile strength	>20 MPa
Elongation at break	>200%
Application method	By brush, short-nap acrylic wool roll



### COLORS

Transparent

### GENERAL SPECIFICATIONS

- Single-component liquid, polyurethane solvent-based, moisture-cured to form a solid, aliphatic and transparent, completely adhered to the substrate, seamless, without joints or overlaps, watertight and waterproof membrane to be used on new buildings or refurbishments for pedestrian use. To be applied on ceramic tiles, natural stones, wood
- It must be applied in sound and resistant substrates, with no presence of humidity/water on the surface whether at the time of application or subsequently (pressure from phreatic water level, damp-water).
- Not use in pools, or chemically treated water, in general not use on total water immersion.



- Once formed, do not clean the support with bleach or highly corrosive products.

## YIELD

The recommended minimum thickness is 1.00 mm (DFT), so the yield is 1.42 kg/sqm (DFT) applied in several coats. These data may vary depending on support or climatic conditions.

## PACKAGING

Metal tins in two different formats: 20 kg / 5 kg.

## STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 °C (41-95°F). Keep away from direct sunlight, extreme heat, cold or moisture. Once the tin has been opened, the product must be used.

## APPLICATION METHOD

**Concrete/mortar substrate:** Concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used. Concrete must be strong, cohesive and dry, having a correct planimetry, high surface resistance, eliminating laitance, graise, oils or release agents, without excessive irregularities. Therefore, the previous action of sanding, polishing, milling or shot-blasting will be assessed by the applicator to achieve a preparation of the substrate according to ICRI Guide 03732, CSP values 3 to 5. Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010. Mastic PU must be used on fissures or small cracks on the surface. In joints: remove old material, clean and fill with Mastic PU. Complement with a Tecnoband 100 band on the upper part. In structural/expansion joints: remove old material, clean and fill with Mastic PU. Complement with specific elastic bands and Tecnoband 100. General cleaning of the substrate. PRIMING: use Primer T, consumption 70-100 g/sqm. Apply the resin

**Ceramic tiles substrate:** Ceramic surfaces should not have empty joints or loose elements or parts. These should be filled with Mastic PU mastic or mortar, according to their size. Existing joints or seals: remove the old material, clean up and fill with Mastic PU and reinforced using Tecnomesh 100. Sanding with specific equipment. Thereby, to remove moss or solids particles bonded to the support, and opening the pore. Clean up, using a vacuum method. PRIMING: use Primer T, consumption 70-100 g/sqm. Apply the resin

**NOTE:** For other types of substrates, weather conditions or the substrate to be applied, consult our technical department.

## HEALTH AND SAFETY

Respiratory Protection: When handling or spraying use an air-purifying respirator. Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking, or smoking. Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in the air. Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations. Re-occupancy of the work site without respiratory equipment is minimum 24 hours providing the correct ventilation for the area sprayed. Contractors and applicators must comply with all applicable and appropriate guidelines for storage and safety guidelines. These safety recommendations for handling, are necessary for the implementation process as well as in the pre and post, on exposure to the loading machinery. Dispose waste in accordance with star or/and local regulations.

## TECHNICAL AND CHEMICAL PROPERTIES

### PROPERTIES

### Values



Density	ISO 1675	1.00 ±0.05 g/cm <sup>3</sup>
Viscosity	ISO 2555	1,350 ~ 350 cps
VOC content		375~425 g/l
Solid content	ISO 1768	75±5 %
Elongation at break	ISO 527-3	>200%
Tensile strength	ISO 527-3	>20 MPa
Tear Strength	ISO 34-1	85 N/mm
Hardness Shore A	DIN 53505	>85
Adherence to concrete		>1.70 MPa
Watertightness	EN-1928	PASS
Dry time / recoat time		5~6 hours/ 6~24 hour
Use temperature range (environment)		-20~80 °C (-4 to 176°F)
Application temperature range (substrate and environment)		5 ~ 35 °C (41 to 95°F)
Maximum environmental moisture		80%
Thermal stability (100 days at 80 °C)		OK
QUV Resistance to weather test(4hr UV, at 60 °C (UVB light) & 4hr at 50 °C)		OK( 3.000h)

*Results were performed in the laboratory at 23°C (73°F) and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.*

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