



DESMOPOL DW - POLYURETHANE MEMBRANE FOR WATERPROOFING AND COATING (POTABLE WATER CONTACT)

Two component, 100% solids, solvent-free polyurethane, thixotropic, once cured forms a solid, continuous, elastic, aromatic membrane, without any joints or overlaps, watertightness and waterproof, whose properties make it excellent for its **application in not exposed to sunlight in contact with water for human consumption.**



USES

For application in the following situations:

- Potable water for human consumption concrete tanks, not exposed to UV rays (/BS 6920,WRAS)
- Swimming pools and water parks

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

Density	1.35± 0.05 g/cm ³
Viscosity	12,500 ±200 cps
Dry time	5~6 hours
Recoat time	6~24 hours
Application method	By trowell or roll



COLORS

White



GENERAL SPECIFICATIONS

- Two component, 100% solids content, solvent-free polyurethane that once applied, forms a hard-wearing, continuous, seamless, waterproofing, and solid membrane that offers a certified waterproofing, watertight behavior for uses in contact with water for human consumption.
- It has CE marking on the basis of a statement made DoP Declaration of Performance (DoP) conforms to the regulations UE305/2011.
- It holds a WRAS approval under BS-6920 "Suitability of non-metallic products for use in contact with water intended for human consumption with regards to their effect on the quality of the water", NSF International Laboratories). Check and confirm the availability.
- It should be applied in dry conditions avoiding the presence of humidity or coming from the surface to be coated or the substrate, whether at the time of application or subsequently (pressure from phreatic water level). In the event there is humidity in the substrate at the time of application.
- In uses for swimming pools and aquatic areas waterproofing, the use Tecnotop 2CP is required and mandatory.
- It resists water temperatures between -20°C and +60°C. (maximum temperature +80°C only during 24 hours).
- Never add solvent or another similar liquid.

YIELD

The recommended minimum thickness is up to 1.5 to 2 mm (60-80 mils), so the consumption must be: 2.05 to 2.75 kg/sqm. The total thickness may vary according to substrate or climatological conditions.

PACKAGING

Metallic drum kit: 12.2 kg+2.8 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

MIXING PROCEDURE

Open pails of both components and homogenize each one by mixing equipment at medium speed. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. In case of doubt, apply in a limited area to check.

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 PU-1050/Primer PUc-1050, Primer EP-1020, Primer EP-1010 or Primer WET, depending on the existing moisture in the substrate. Extends in a single coat, using a notched trowel or rubber lip in a single thick coat



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

REPAIR AND OVERLAPS PROCESSES

REPAIR: In cases where the membrane repair by accidental causes, or assembly procedures not covered installations, shall be as follows: Cut, removal of the affected area and/or damaged surface. Sanding this area extending about 20~30 cm. around the perimeter, for overlapping security. Cleaning (vacuuming) of waste generated (powder, dust...); if it's possible don't use water, and if used, support humidity value; ketones applicability based solvents for reducing this type of surface cleaning. Apply a thin layer (100-150 g/sqm) of polyurethane resin Primer PU-1030, Primer PU-1050, Primer PU-1000. Light spread Silica Sand over the wet primer applied before. Wait for the total drying. Apply the membrane.

OVERLAPS: In cases has been exceeded recoat time (24~48 hours), so the waiting time between jobs is prolonged, proceed as follows: Sanding strip longitudinal overlap of about 20~30 cm. wide. Cleaning (vacuuming) of waste generated (powder, dust...) or existing dust; if it's possible, do not use water, and if it's used, check the support humidity value; ketones applicability based solvents for conducting this type of surface cleaning. Apply a thin layer (100-150 g/sqm) of polyurethane resin Primer PU-1030, Primer PU-1050, Primer PU-1000. Light spread Silica Sand over the wet primer applied before. Wait for the total drying. Apply the membrane.

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	1.35± 0.05 g/cm ³
Viscosity	ISO 2555	12,500 ±200 cps
Density components A/B	ISO 1675	1.35± 0.05 g/cm ³ - 1.10± 0.05 g/cm ³
Viscosity components A/B	ISO 2555	24,000-30,000 cps / 500-800 cps
Mixing ratio (in weight)		4.35:1
VOC content		0
Solids content	ISO 1768	100%
Tensile strength	ISO 527-3	>10 MPa
Elongation at break	ISO 527-3	>110%
Tear strength	ISO 34-1	36 N/mm
Hardness Shore A / D	DIN 53.505	>80 / >50
Watertightness	EN-1928	PASS: Watertight
Adherence to concrete		>1.5MPa
Pot-life /dry time/recoat time		30-35 min./ 5~6 hours / 6~24 hours
Application temperature range (substrate and environment)		5 ~35 °C (41 to 95°F)
Fire reaction	EN-13501	Euroclass E
Liquid range constant temperature		-20 ~60°C (-4 to 140°F)

Results performed in the laboratory at 23°C (77°F) and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.

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