

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, watertighness 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)
- Swiming 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/cm³
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 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 has CE marking on the basis of a statement made DoP Declaration of Performance (DoP) conforms to the regulations UE305/2011.
- 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 finish with Tecnotop 2CP.
- 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 to reduce viscosity.

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

SHELF LIFE

12 months at temperatures between 5 and 35° C (41 to 95 °F), provided it is stored in a dry place. Once the tin has been opened, the product must be used

MIXING PROCEDURE

These are the steps for the correct mixing of both components:

- 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

The following factors prior to application should be checked:

- Previous preparations of the substrate through physical processes (substrate preparation (sanding, polishing, shot blasting, or milling) for laitance and reliease agents as well as for the opening of the surface pore, achieving a suitable anchorage profile. (CSP 3 -4-5, according to the ICRI)
- Existing holes or areas with a lack of material must be repaired using some or our epoxy resins: Primer EP-1020/Primer EP-1010
- Joint fillings with Mastic PU
- In existing dilatations joints: remove old material, clean, and fill with Mastic PU. Use also Tecnoband 100 to cover, if necessary.
- Joint filling for installation, work and consolidation of surfaces.



 General cleaning of the substrate, removing existing dust, dirt, grease or efflorescence. The substrates must be resistant and cohesive.

Concrete or 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 have a surface with a correct planimetry, high surface resistance, eliminating laitance or release
 agents, without excessive irregularities. Therefore, the previous action of sanding, polishing, milling or shotblasting will be assessed by the applicator to achieve a preparation of the substrate according to ICRI Guide
 03732. CSP values 3 to 5.
- Cracks and damaged areas must be repaired using epoxy mortar Primer EP-1020/Primer EP-1010.
- Mastic PU must be used on fissures or small cracks on the surface.
- Existing joints or seals: remove the old material, clean up and fill with Mastic PU and Tecnomesh 100 matting.
- Clean up well and eliminate all contaminants from the elements, such as dust or chippings, using dry methods preferably.
- Primer application using our Primer PU-1050/Primer PUc-1050, total yield of 250 g/sqm (applied in several thin coats) or Primer WET depending on the existing moisture in the substrate and with a total yield of 450 g/sqm
- 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
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HEALTH AND SAFETY



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.

- 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 generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.

Consult the material and safety data sheet of the product (MSDS), or contact our technical department.

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	$1.35 \pm 0.05 \text{ g/cm}^3 - 1.10 \pm 0.05 \text{ g/cm}^3$
Viscosity components A/B ISO 2555	24,000-30,000 cps / 500-800 cps
Mixing ratio (in weight)	4.35:1
VOC content (volatile organic compounds)	0
Solids content ISO 1768	100%
Watertightness EN-1928	PASS: Watertight
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
Adherence to concrete	>1.5MPa
Pot-life	30-35 min.
Dry time	5~6 hours
Recoat time	6~24 hours
Application temperature range (substrate and environment)	5 ~35 °C (41 to 95°F)
Fire reaction	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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TDS. TECHNICAL DATA SHEET

DESMOPOL DW v.28-11-2023

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