PURPOL-D
Aromatic polyurethane membrane.

DESCRIPTION

Single-component, aromatic, solvent-based polyurethane membrane that cures with ambient humidity, producing a continuous, elastic and durable layer that is completely adhered to the substrate, without joints or overlaps, 100% watertight and impermeable. Its properties make it excellent for application on all types of surfaces, whether in new construction or renovation.

ADVANTAGES

- ✓ Highly elastic and wear-resistant membrane that, once applied, offers great stability, durability and watertightness.
- ✓ The versatility of **PURPOL-D** allows it to adapt to a wide range of surfaces and different materials, making it the ideal product for application in irregular areas with shapes of any kind, whether curved or square.
- ✓ No surface reinforcement is necessary, only at specific points where it meets other construction elements.
- ✓ Application in landscaped areas.
- ✓ The properties of the PURPOL-D system allow it to adhere to any surface such as cement, concrete, polyurethane foam, butyl or asphalt sheets, wood, metal, etc.
- ✓ Due to its resistance, it can be walked on and is non-slip, with a rough finish achieved by adding solid particles (silica quartz).
- ✓ Ceramic paving can be laid on top.
- ✓ Self-levelling.
- ✓ Fast drying at temperatures between 5°C and 25°C.
- ✓ Easy to apply (roller or airless spray gun).
- ✓ Once applied, it creates a continuous membrane.
- ✓ Water resistant.
- ✓ Maintains its mechanical properties between -40°C and +90°C.
- ✓ Ice resistant.
- ✓ Completely adhesive.
- ✓ Easy to repair.

RECOMMENDED USES

Flat walkable roofs, terraces, balconies and sloping roofs Inverted roofs (bottom insulation)
Concrete slabs and structural floors, as well as foundations and walls Swimming pools, ponds, aquariums, even marine environments
Green roofs.
Sloping or flat roofs made of corrugated metal sheets, fibre cement, bituminous felt, asphalt felt.
Protection of polyurethane foam thermal insulation systems.

PRESENTATION

Colours in grey. RAL chart available on request.
Format: 25 kg

TECHNICAL CHARACTERISTICS

Composition	Fixed vehicle	Aromatic polyurethane elastic resins.
	Pigments	Mineral and organic.
	Solvent	Solvent.
Density		1.45 ± 0.02 kg/L.
Coverage		1.5-2 kg/m^2, in several coats, depending on the roughness and porosity of the substrate.

APPLICATION

Homogenise the product before use. Apply in several successive coats until the desired thickness is achieved.

Dilution	Ready to use
Application temperature: between 10	Apply at ambient temperatures and 25°C. Do not expose materials to high temperatures or storage exposed to sunlight
Application tools:	Roller, brush, spray gun

PROPIEDADES MECÁNICAS DE LA MEMBRANA

Tensile strength:	3 - 4 MPa
Tack-free time*	Approx. 2-3 hours
Curing time at 20°C:	3-4 hours
Membrane density	to 1.35 ± 0.05 g/l
Solids content:	100%
Elongation at break:	400 - 600%
Tensile strength:	150 kg/2
Shore hardness (7 days):	90

SURFACE PREPARATION

Cementitious substrates

Mechanical treatment using a SAT diamond disc machine followed by vacuuming. Repair cracks, fissures and cavities using PR EPOX 100S thixotropic epoxy resin. Apply a coat of PR EPOX W20 epoxy primer ( ) to loose and absorbent surfaces.

Careful preparation of the surface is very important for the durability and correct application of the product. The surface must be clean, dry and sound, and free of contaminants that could adversely affect the adhesion of the membrane. The maximum moisture content must not exceed 5%. The compressive strength of the substrate must be at least 25 MPa, and the cohesive bond strength at least 1.5 MPa. New concrete structures must be allowed to dry for at least 28 days. Old membranes and loose membranes, dirt, grease, oil, organic substances and dust must be removed with a polishing machine. Any surface irregularities must be removed.

Clean concrete cracks and fine fissures of dust, residues or other contaminants. Prime locally with thixotropic epoxy resin PR EPOX 100S or epoxy primer PR EPOX W20, depending on the size of the crack, and allow to dry for 2-3 hours. Fill all prepared cracks with a specific polyurethane sealant. Then apply a layer of PURPOL D, 200 mm wide, centred over all cracks, and while still wet, cover with a piece of protective tape for cracks cut to size. Press until saturated.
200 mm wide centred over all cracks and, while still wet, cover with a correctly cut piece of protective tape for cracks. Press until soaked.

Apply another coat of PURPOL D.
Prime non-absorbent surfaces such as metal, ceramic tiles and old membranes with PR EPOX W20. Prime surfaces such as asphalt fabrics and acrylic coatings with PR EPOX W20.

Painted surfaces

First apply a coat of water-based epoxy primer, PR EPOX W20, as a bonding bridge on substrates.

Substrates in poor condition

If the paint is old or poorly adhered with defects such as chalking, blistering, flaking, cracking, etc., remove any residue mechanically, repair cracks or damage and apply a coat of PR EPOXW 20.

STORAGE

Easy to homogenise by stirring after 12 months' storage in a closed container. Does not form skins, clots or gels. Store at temperatures below 5ºC.

SAFETY

Consult the label and safety data sheet.

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