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 adheres completely to the substrate, without joints or overlaps, 100% watertight and impermeable, whose properties make it excellent for application on all types of surfaces, whether in new construction or renovation.

ADVANTAGES

- ✓ Highly elastic and wear-resistant membrane which, once applied, offers great stability, durability and watertightness.
- ✓ The versatility of **PURPOL-D** allows it to adapt to a multitude of surfaces and different materials, making it the ideal product for application on irregular areas of any shape, whether curved or square.
- ✓ No surface reinforcement is necessary, only at specific points where it meets other construction elements.
- ✓ Application in garden 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.
- ✓ Resistant to frost.
- ✓ 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. Consult RAL chart.
Format: 25 kg

TECHNICAL CHARACTERISTICS

Composition Fixed vehicle Aromatic polyurethane elastic resins.
Pigments Mineral and organic.
Xylene solvent.

Density 1.30 ± 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. The application should be carried out in several successive layers until the desired thickness is achieved.

Dilution Ready to use.
Application temperature: Apply at ambient temperatures between 10 and 25°C.
Do not expose materials to high temperatures or exposed storage.
temperatures or exposed storage sunlight
Application tools: Roller, brush, spray gun
Curing time at 20°C: 3-4 hours
Repainting: 12 hours
Trafficable: 24 hours

MECHANICAL PROPERTIES OF THE MEMBRANE

Tensile strength: 4.6 – 4.7 MPa

Time **to loss of** tackiness* Approximately 2-3 hours

Water vapour transmission: .8 grams/m^2/hour

Solids content: 95% ±2%

Adhesion to concrete: >20 N/mm

Accelerated ageing QUVb: >1000 hours

Elongation at break: 700%

Breaking strength: 150 kg/2

Shore hardness (7 days): 90

SURFACE PREPARATION

Cementitious substrates

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

Careful surface preparation 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 irregularities on the surface must be removed.

Clean concrete cracks and fine fissures of dust, debris or other contaminants. Prime locally with PR EPOX W20 epoxy primer, 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 200 mm wide layer of PURPOL D centred over all cracks and, while still wet, cover with a correctly cut piece of protective tape for cracks. Press until saturated.

Apply another layer 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 EPOXW 20, 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 the residue mechanically, repair cracks or damage and apply a coat of PR EPOX W20.

CONSERVATION

Easy to homogenise by stirring thoroughly after 12 months of storage in a closed container. Does not form skins, clots or gels. Keep away from temperatures below 5 °C.

SAFETY

Consult the label and safety data sheet.

Pinturas Ayelenses s.l.
P.I. San José, s/n / 46812
Ayelo de Malferit / Valencia / Spain
t. 96 236 02 92 / f. 96 236 06 01
pinturaspinay.com
info@pinturaspinay.com