

VALPLAN® WP PVC M02

Waterproofing PVC membrane for tunnels and basement works with signal layer (twin colours).

Project Description

VALPLAN® WP PVC M02 is a polyvinylchloride (PVC-P) signal layer homogeneous sheets waterproofing membrane.

Characteristics / Advantages

- High resistance to ageing
- High tensile strength and elongation
- Resistant to root penetration and micro-organisms
- Resistant to natural aggressive mediums in ground water and soil
- High water vapour transmission ability
- High resistance to mechanical impact
- High dimensional stability
- High flexibility in cold temperatures
- Heat weldable
- Suitable for contact with acidic soft water (low pH aggressive to concrete surfaces)
- Suitable for installation on weak substrates (i.e. with a cohesive/pull-off strength < 1.5N/mm²)
- Can be installed on damp and wet substrates

Technical Parameters

Characteristics	Norms/Standards	Units	Specifications
Thickness	EN 1849-2	mm	≥2 (-5/+10%) mm
Color			Yellow/Black
Tensile Strength	EN ISO R 527	N/mm ²	≥17
Elongation at Failure	EN ISO R 527	%	≥300
Tear Strength	EN ISO 34	kN/m	≥40N
Puncture CBR Test	EN ISO 12236	kN	>2.2
Resistance to Under Water Pressure (10bar/ 10hours)	EN 1928	No Leakage	Meets

Low Temperature Behavior	EN 495-5	No Cracks	-35 ° C
Micro-biological Resistance (Variation of Tensile Strength and Elongation at break)	EN 12225	%	≥15

Root Resistance	EN 14416	No penetration	Meets
Oxidation Resistance (Variation of Tensile Strength)	EN 14575	%	25
Thermal Ageing (70d/80°C) (Variation of Tensile Strength and Elongation at break)	EN 1296	%	10
Dimensional Change After Heating (6h/80°C)	EN ISO 1107-2	%	±2
Behavior in Alkaline Solutions (90d/23°C) (Variation In Elongation)	EN 14414	%	10
Fire Resistance	EN ISO 11925	Class	E

Limitations

This product must only be installed by certified welders according to DVS 2225 code.

The membrane is not resistant to permanent contact with materials including bitumen, and plastics other than PVC; on these it requires a separation layer of geotextile minimum (> 300 g/m²). The water tightness of the structure must be tested and approved after completion of the membrane installation works according to the requirements of DVS specifications.

The membrane is not UV stabilized and cannot be installed on structures permanently exposed to UV light and weathering.

Storage

VALPLAN® WP PVC M02 must be stored in dry conditions. It must be protected from direct sunlight, rain, snow, and ice.

Legal Notes

All data in our product information are based on our current knowledge and experience. They do not release users from careful testing of the application and strict observation of the relevant processing regulations because of the wide range of possible influences during the application and use of our products. Legally valid assurances of specific characteristics or suitability for special purposes of application other than those provided in our documentation for the specific product cannot be inferred from our information. The recipient or processor of our products at their own responsibility must follow any protective rights or existing laws and provisions. Moreover our general terms and conditions of sale and warranty are valid.