



POLYMAT® Pool -R



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EN 15836

Polymeric Swimming pool membranes of PVC-P compound

High UV-resistant polymeric PVC-P Swimming Pool membrane with a PVC-coated Polyester scrim reinforced. Complies with European Standard EN-DIN 15836 (plasticized polyvinylchloride membranes for ground swimming pools, additional Part 2-reinforced membranes of nominal thickness equal or greater than 1.50 mm).

POLYMAT Pool -R Description

POLYMAT Pool -R is a polymeric membrane made from a long-term proven PVC-P compound in a most modern Co-extrusion process. It is reinforced by a 110 g/sqm Polyester scrim for providing high tear strength and ensuring dimensional stability.

Thickness (mm)	1.2	1.5	2.0
Width (m)	2.10	2.10	2.10
Length (m)	25	20	20
Colour (*)	Top: Top and Bottom RAL 5015 sky blue		

(*) Top-side: Other RAL Standard colors on demand

Bottom side: black or other RAL Standard colors on demand

POLYMAT Pool -R Applications

Reinforced PVC-P membrane for Swimming pool linings and other water containments

POLYMAT Pool -R is highly resistant to abrasion.

For ease of detail works (flashings, joints, corners, etc.) use high UV-resistant homogenous **POLYMAT Pool -HM**

POLYMAT Pool -R Advantages

- High mechanical & thermal resistance
- High resistance to UV rays & Weathering
- High resistance to puncturing
- Resistant to root penetration
- High resistance to hot-cold temperature cycles
- High aging resistance, well proven formula developed for 40 years
- Fast application: Roll lengths of 20-25 m1 and 2.10 – 2.15 m1 widths, up to 60 m1 roll length on demand
- Specific thicknesses: on demand
- Full range of complimentary accessories available
- Customized sheet sizes of up to 1000 m² available for any project

POLYMAT Pool -R Installation

POLYMAT Pool -R membranes are seam welded with hot air automatic and hand-held machines by trained applicators. For detailsolutions and the best application methods for all designs, consult the application technicians of **BITUMAT** or **BITUMAT** distributors for field assistance.

BITUMAT provides system membranes for all waterproofing requirements, to guarantee the best and most proven solution for all constructions, buildings and civil engineering projects.

The following ranges of PVC-P system membranes are available (as customized sheets as well):

- **POLYMAT Roof UV-R + HM:** High UV resistant & fire-retardant membrane for exposed roofing (reflective)
- **POLYMAT Roof -R + HM:** System membrane for inverted & ballasted roofs, roof gardens
WP membrane for Civil engineering & Building structures below ground, high performance
- **POLYMAT Base HM + -R:** Geo-membrane applications, homogenous and reinforced
- **POLYMAT TN (Tunnel):** Membrane for Tunnels and covered vaults (with yellow Signal layer)
- **POLYMAT Pota:** Membrane certified for potable Water tanks, Reservoirs and Containers for var. liquids



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Specification & Properties

EN 15836

Technical Properties		
Mass per unit area (*)	1.20 mm: 1.45 ± 0,2 kg/m ² 1.50 mm: 1.80 ± 0,2 kg/m ² 2.00 mm: 2.40 ± 0,2 kg/m ²	EN 1849-2
Reinforcement	PY 1100	
Water absorption	≤ 1% masse	EN ISO 62 Method 1
CaCO ₃ content	≤ 3% masse	Spectrometry
Thickness (*)	1.20 mm ± 5% 1.50 mm ± 5% 2.00 mm ± 5%	EN 1849-2
Tensile strength	≥ 1150 KN/50 mm	EN 12311-2
Elongation at break	16/16 ± 3 %	EN 12311-2
Tear strength	ISO 34 Method B; V=50 mm/min ISO 34 Method B; V=50 mm/min	Machine: ≥ 42 kN/m Cross: ≥ 42 kN/m
Tear resistance	≥ 200 N	EN 12310-2
Dimensional stability	≤ 0.5 %	EN 1107-2
Resistance to foldability at low temperature (**)	≤ -25°C	EN 495-5
Peel resistance of joints	≥ 100 N/50mm	EN 12316-2
Watertightness (10 kPa)	absolute	EN 1928
Microorganism resistance incl. strepto-bacteria	Mass Loss ≤ 1%, pass	EN ISO 846:1997; ATCC 25607
Resistance to Chlorine	≥ 3	EN 15836 Annex
Resistance to UV radiation + artificial weathering	5000 hrs. no visible deterioration @ 7 x magnification	ASTM 4434-15 G 154 & G 155
Reaction to fire	EN ISO 11925-2	Class E

(*) Tolerances as per EN-DIN and UEAtc directive. (***) Not tested at lower temperatures



Storing

POLYMAT membranes are recommended to be stored out of direct sunlight and on pallets.



Quality Assurance

The products originating from the **BITUMAT COMPANY LIMITED** facility are manufactured under a management system independently certified to conform to the requirements of ISO 9001:2015, specified to EN 13956.



Safety

BITUMAT products contain no asbestos, tar or any other dangerous substances. When adhering to **BITUMAT** installations manuals, **POLYMAT** membranes do not damage the environment are not classified as hazardous goods for all transports.



Note

Advisory service, where provided, does not constitute supervisory responsibility.
For additional information contact the **BITUMAT COMPANY LIMITED** Sales & Application Department.



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