



# POLYMAT® Pool -R



## POLYMAT® Pool -R

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 m<sup>2</sup> 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.

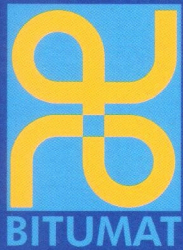
The following ranges of PVC-P system membranes are available (as customized sheets as well):

- **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 <sup>2</sup> 1.50 mm: 1.80 ± 0,2 kg/m <sup>2</sup> 2.00 mm: 2.40 ± 0,2 kg/m <sup>2</sup>	EN 1849-2
Reinforcement	PY 1100	
Water absorption	≤ 1% masse	EN ISO 62 Method 1
CaCO <sub>3</sub> 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. streptobacteria	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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