



## POLYMAT® Roof -R



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EN 13956

Polymeric Roofing membranes of PVC-P compound, Non-UV-resistant for application at **inverted and covered roof systems**.

**POLYMAT Roof -R:** non-UV resistant membranes for covered roof application

PVC waterproofing membrane with a PVC-coated Polyester scrim reinforced, complies with the European harmonized Standard EN-DIN 13956 (flexible sheets for waterproofing).

### POLYMAT Roof -R Description

**POLYMAT Roof -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 90g/m<sup>2</sup> Polyester scrim for providing high tear strength and ensuring dimensional stability.

Thickness (mm)	1.20	1.50	1.60
Width (m)	2.10	2.10	2.10
Length (m)	25	20	20
Colour (*)	Top side: RAL 9002 grey white, Bottom side: black		

(\*) Other top side colours available on demand

(\*\*) Other thicknesses on demand (e.g. 2.00 – 2.20 mm)

### POLYMAT Roof -R Applications

**POLYMAT Roof -R** as a single-ply membrane for:

- Ballasted roofing systems and Roof Gardens (Green Roofs)
- System membrane in inverted roofs, using a separation layer (i.e. polypropylene fleece 120 g/m<sup>2</sup>), where adjoining surfaces have surfaces have incompatible chemical properties (e.g. extruded and expanded polystyrene boards, bituminous surfaces)
- For ease of detail works (i.e. flashings, joints) use high UV resistant & fire retardant **POLYMAT Roof UV-HM** (homogenous) and for UV-exposed upstands and connected UV exposed surfaces **POLYMAT Roof UV-R** (reinforced).

### POLYMAT Roof -R Advantages

- High mechanical resistance
- Resistance to UV rays & Weathering
- High resistance to puncturing
- Resistant to root penetration
- High resistance to hot-cold temperature cycles
- Various RAL colors available on demand to aid architectural designs
- 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 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 detail solutions 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:** High UV resistant & fire-retardant membrane for exposed roofing system
- **POLYMAT Base-R + HM:** WP membrane for Civil engineering & Building structures below ground, high performance Geo-membrane applications, R reinforced, HM homogenous
- **POLYMAT TN (Tunnel):** Membrane for Tunnels and covered vaults (with Signal layer)
- **POLYMAT Pool :** Classic Swimming Pool membranes and Pond Liners in **sky blue** and various RAL colors
- **POLYMAT Pota:** Membrane for potable Water tanks, Reservoirs and Containers for var. liquids



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### Specification & Properties

EN 13956

#### Technical Properties

Thickness EN 1849 - 2	1.20 mm (±3%)	1.50 mm (±3%)	1.60 mm (±3%)
Mass per unit area EN 1849 - 2	1.54kg/m <sup>2</sup>	1.98kg/m <sup>2</sup>	2.10kg/m <sup>2</sup>
Tensile strength EN 12311 - 2	≥ 1150 N/50 mm	≥ 1210 N/50 mm	≥ 1210 N/50 mm
Elongation at max. tensile force l/t EN 12311-2	≥ 16/16 %	≥16/16 %	≥16/16 %
Tear resistance EN 12310 - 2	≥ 250 N	≥ 270 N	≥ 300 N
Cold Flexibility EN 495 - 5	(**) ≤ -30°C	(**) ≤ -30°C	(**) ≤ 30°C
Water tightness (10 kPa) EN 1928	absolute	absolute	absolute
Dimensional stability (%) after 6 hours at 80°C - EN 1107 - 2	≤ 0.5 %	≤ 0.5 %	≤ 0.5 %
Root resistance EN 13948	No penetration	No penetration	No penetration
Hail resistance EN 13583 -on Steel (rigid substrate) -on XPS/EPS (thermal ins. Board)	≥ 25 m/s 40 m/s	≥ 25 m/s 40 m/s	≥ 25 m/s 40 m/s
Artificial aging EN 1297:2002-12 (1000 h)	Pass	Pass	Pass
Peel resistance of joints l/t EN 12316 - 2	≤ 250 N/50 mm	≤ 250 N/50 mm	≤ 250 N/50 mm
Shear resistance of joints l/t EN 12317 - 2	≥ 1150 N/50 mm	≥ 1150 N/50 mm	≥ 1150 N/50 mm
Resistance to impact EN 12691 Procedure B Procedure A	2000 mm 600 mm	2000 mm 600 mm	2000 mm 600 mm
Resistance to static Loading EN 12730	≥ 20 kg	≥ 20 kg	≥ 20 kg

(\*) Tolerances as per EN-DIN 13956 and/or 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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