



## POLYMAT® Roof UV-R

EN 13956

Polymeric Roofing membranes of PVC-P compound

High UV-resistant & fire retardant polymeric PVC-P waterproofing membrane with a PVC-coated Polyester scrim reinforced, complies with the European harmonised Standard EN-DIN 13956 (flexible sheets for waterproofing).

### POLYMAT Roof UV-R Description

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

Thickness (mm)	1.20	1.50	2.00
Width (m)	2.10	2.10	2.10
Length (m)	25	20	20
Colour (*)	Top: Traffic white RAL 9016, Bottom: stone grey RAL 7030		

(\*)Other top side colours available on demand.

(\*\*) Other thicknesses on demand (e.g. 1.60 – 2.20 mm)

### POLYMAT Roof UV-R Applications

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

- Exposed roofing systems (i.e. mechanically fastened industrial roofs)
- Ballasted roofing systems and Roof Gardens (Green Roofs)
- Single-ply refurbishment on roofs with existing bituminous waterproofing, using a separation layer of 300 g/m<sup>2</sup> polypropylene fleece or **POLYMAT Roof UV-R FB300** (fleece back on bottom side, 300 g/m<sup>2</sup> non-woven) as a fully on bonded membrane in architectonic roof designs
- For ease of detail works (i.e. flashings, joints) use high UV resistant & fire retardant homogenous **POLYMAT Roof UV-HM**

### POLYMAT Roof UV-R Advantages

- High mechanical & thermal resistance
- Resistance to UV rays & Weathering
- High resistance to puncturing
- Resistant to root penetration
- Fulfils European Fire protection standards Broof (t1)=hard roof on XPS/EPS with 120 g/m<sup>2</sup> separation layer (and on mineral wool boards)
- 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 Roof UV-R Installation

**POLYMAT Roof UV-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 (all range as customized sheets as well) are available:

- **POLYMAT Roof -R + HM:** System membrane for inverted & ballasted roofs, roof gardens
- **POLYMAT BASE HM + -R:** WP membrane for Civil engineering & Building structures below ground, high performance Geo-membrane applications, homogenous and reinforced
- **POLYMAT TN (Tunnel):** Membrane for Tunnels and covered vaults (with yellow 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



## POLYMAT® Roof UV-R

### Specification & Properties

EN 13956

Technical Properties			
Thickness EN 1849 - 2	1.20 mm (±3%)	1.50 mm (±3%)	2.0 mm (±3%)
Mass per unit area EN 1849 – 2	1.54kg/m <sup>2</sup>	1.98kg/m <sup>2</sup>	2.66kg/m <sup>2</sup>
Tensile strength EN 12311 – 2	≥ 1150 N/50 mm	≥ 1210 N/50 mm	≥ 1360 N/50 mm
Elongation at max. tensile force l/t EN 12311-2	≥ 16/16 %	≥ 16/16 %	≥ 16/16 %
Tear resistance EN 12310 - 1	≥ 400 N	≥ 400 N	≥ 400 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	≤ 0.4 %	≤ 0.4 %	≤ 0.4 %
Resistance to UV radiation + artificial weathering ASTM D 4434-06/BS 3900/F3 - 5000 hrs.	no surface damage -Grade 0	no surface damage -Grade 0	no surface damage -Grade 0
Resistance to Ozone EN 1844	passed	passed	passed
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 900 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.