



POLYMAT® Liner C3SL

Polymeric Waterproofing membranes of PVC compound (single layer)

Polymeric PVC-P carrier liner and waterproofing membrane, homogenous for high elasticity.

POLYMAT C3 Description

POLYMAT C3 is a polymeric membrane made from a long-term proven PVC-P compound in a most modern Extrusion process, features high elongation for elasticity.

Thickness (mm) (**)	0.75	1.00	1.20
Width (m)	2.10	2.10	2.10
Length (m)	Confection + Jumbo rolls	Confection + Jumbo rolls	Confection + Jumbo rolls
Colour (*)	RAL 9004 signal black/grey (single layer)		

(*) On request: other RAL standard colors or UV-resistant RAL 9016 traffic white

Fire retardancy properties; Thicknesses up to 3,20 mm (multiple layer), various membrane widths

POLYMAT C3 Applications

POLYMAT C3 as a single-ply subsoil membrane for lining of artificial lakes and ponds and other Geo-membrane applications:

- As carrier base membrane for protection coatings (corrosion protection of pipes, sleeves)
- Lining, protection & separation on various substrates for civil engineering and landscaping
- Other covered or exposed applications, where high elongation for elasticity is required

POLYMAT C3 Advantages

- High mechanical resistance
- High resistance to puncturing
- High elongation @ break
- High water vapor permeability
- Resistant against common environmental influences
- Resistant to root penetration
- High resistance to hot-cold temperature cycles
- High aging resistance, well proven formula developed since 40 years
- Fast application: Standard lengths of 20-25 lm and 2.10 lm widths, up to 60 lm roll length on demand
- Jumbo rolls and customized sheet sizes of up to 1000 m² available for any project (drop-in panels)
- Not suitable for permanent UV light exposure
- Not resistant to tar, bitumen, oil and solvents
- Not suitable for direct contact with EPS and XPS

POLYMAT Installation

POLYMAT membrane seams are connected fast and secure with automatic hot-air & wedge welding 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 **POLYMAT** 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 various RAL colors

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Specification & Properties

Technical Data		
Material Basis	Polyvinyl chloride (PVC-P)	
Roll Lengths	Jumbo rolls on customer request	Opt.: pre-weld drop-in panels
Width	2.10 m (2.05 – 2.15)	
Thickness	1.00 – 1.20 – 1.50 – 2.00 mm (-5% / +10%)	EN 1849-2
Mass per Unit Area	≥ 1.32 – 1.58 – 1.98 – 2.64 kg/m ²	EN 1849-2
Thermal expansion	175 x 10 ⁻⁶ (± 40 x 10 ⁻⁶) 1/K	ASTM D 696
Mechanical / Physical Properties		
Impact Strength	≥ 900 mm	EN 12691- Method A
Tensile Stress	Longitudinal ¹ : ≥ 9 N/mm ² Transversal ² : ≥ 9 N/mm ² ¹ machine direction ² cross machine direction	EN 10319 EN 10319
Dimension Stability	≥ 2% (6 h/80°C)	EN 1107-2
Foldability at Low Temperature	≤ -15°C	EN 495-5
Slotted Disc Water Pressure	≥ 1.2 N/mm ²	EN 1928 - Method B
Burst Strength	≥ 40%	prEN 14151
Resistance		
Microbiological Resistance	Loss in tensile strength: ≤ 10% Loss in elongation: ≤ 10%	EN 12225 EN 12225
Chemical Resistance	A: Change in elongation: ≤ 10% B: Change in elongation: ≤ 10% D: Change in elongation: ≤ 10%	EN 14414 EN 14414 EN 14414
Reaction to Fire	Class E	EN 13501-1
Resistance to Root Penetration	Pass	prEN 14416

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.

Safety

POLYMAT 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.