

PITCHMASTIC PmB

PmB Membrane

Polyurethane Waterproofing Membrane

Description


PmB Membrane is a two part, blue pigmented polyurethane elastomer. The solvent free membrane is spray applied and gels in seconds to provide a seamless barrier against the ingress of water and other contaminants. The system has over 20 years unparalleled track record with thousands of structures waterproofed successfully throughout the world.

Advantages

- Unparalleled 20 year track record
- Class leading adhesion
- Weather resistant
- Crack bridging
- Tear resistance
- Abrasion resistance
- Sound installation
- Chemical resistance
- Homogeneous watertight seal
- Resistant to rot/microbial attack
- Low flammability rating
- Applied by highly trained operatives

Applications

- Bridges and Highways
- Rail
- Airports
- Roofing
- Water supply
- Basements
- Tunnels
- Car parks

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Pitchmastic PmB, Panama House, 184 Attercliffe Road, Sheffield, S4 7WZ 14 0086-CPD-594215	
EN 1504-2 Surface protection system for concrete Coating	
Permeability to Water Vapour	Class 3
Capillary Absorption & Permeability to Water	$<0.1 \text{ kg/m}^2/\text{H}^{0.5}$
Adhesion	$\geq 1.5 \text{ MPa}$
Dangerous substances	Complies with 5.3

Technical Information

Appearance	Pigmented Resin
Density	0.90
Shore A Hardness	80
Elongation	>250%
Tensile Strength	12.5 MPa
Tear Strength	28 KN/m
Water Tightness	Watertight
Adhesion	>2.5 MPa

Technical Data for PmB Membrane .

Properties	Standard	Performance Requirements	Declared Value
Appearance			Pigmented Resin Membrane
Solids Content			100%
Specific Gravity			0.9
Shore A Hardness	BS903-Part A2		80
Rebound Resilience	BS903-Part A8		26%
Elongation At Break	ASTM D638	≥80%	>250%
Tensile Strength	ASTM D638	≥930 psi	1815 psi
Tear Strength	BS903-Part A3		28 KN/m
Low Temperature Flexibility & Crack Bridging Test	ASTM C836		Pass
Static & Dynamic Crack Bridging Test	EN 1062-7		In Extension 14mm
Cracking Endurance			Undamaged
Bending Test			Undamaged (-20°C to +50°C)
Resistance to Flow & Heat Flow Test 70°C Heat Test 240°C			No Effect Undamaged
Abrasion Resistance	DIN 53516		160mm ³
Retention of Mechanical Properties	DIN 53443		-40°C to 110°C
Glass Transition Temperature	DIN 53445		-42°C
Water tightness	DIN 1048		Pass
Water Vapour Permeability	DIN 52615		Confirmed 486, Sd=1.0m
CO ₂ Permeability Englefield			Confirmed U=64000, Sd=15m
Water Absorption	DIN 52617		0.0076kg/m ²
Resistance to Chlorides			Resistant
Adhesion to Concrete	ASTM D4541		855 psi
Water Vapour transmission	ASTM E96		1.7g/m ² /24hr
Artificial Weathering - 1000hrs Elongation Tensile Strength	ASTM D4587	+10% to -20% ±10%	+6.0% +0.9%
Electrical Resistivity	ASTM D257	>5000 ohm/cm	91x10 ⁶ ohm/cm
Puncture Resistance	ASTM E154	95kgf	174kgf

Technical Data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

Tests performed under laboratory conditions, (23°C) unless otherwise stated.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa

1 N/mm² = 145 psi



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Surface preparation

All surfaces must be clean and dry, free from oil and chemical contamination.

Concrete surfaces should be a minimum of seven days old and free from laitance. Repairs to damaged concrete can be made using Nufins Deck Repair Rapid®.

Steel surfaces should be prepared by removing all loose scale, rust and dirt exposing bright metal to achieve a high quality surface finish.

For compatibility with other construction materials or where additives, cement replacement or curing compounds have been used please consult our technical support staff.

Application instructions

Applications should only be made by trained operators using suitable spray equipment.

Cleaning

All tools and equipment should be cleaned with Pitchmastic solvent before the material is allowed to cure.

Storage

PmB Membrane should be stored in a cool, dry place out of direct sunlight and in accordance with the relevant Health & Safety regulations. Storage temperatures must not exceed 50-60°C. Do not store near naked flames or foodstuffs. Stored unopened under these conditions the components will have a shelf life of six months.

Health & safety

Appropriate information has been assembled which provides information concerning the health and safety precautions that must be observed when handling and working with PmB Membrane, i.e. material safety data sheets. These should be read to highlight any hazards and ensure proper use and handling.

Technical support

Further information can be obtained on request from our technical department.



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