

## Product: PmB - Spray Applied Waterproofing

### Product Description:

PmB is a two part, polyurethane elastomeric waterproofing system. 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 40 years unparalleled track record with thousands of structures waterproofed successfully throughout the world.

### Uses:

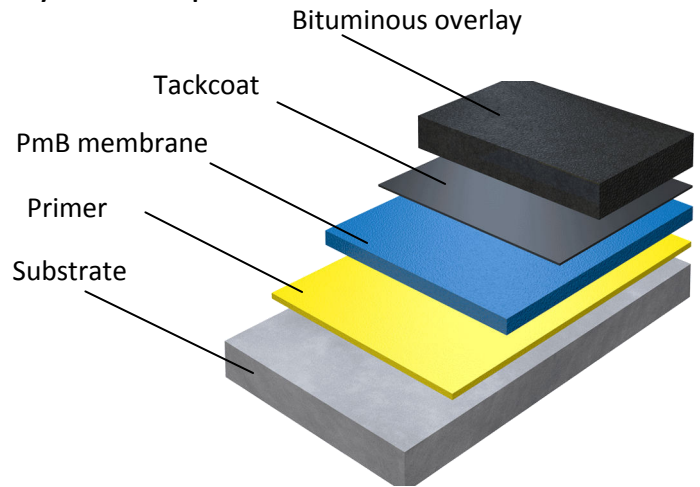
PmB provides a complete waterproofing system to protect the substrate from the corrosive effects of water and chloride ions. Typical applications include:

- Bridges and highways
- Airports
- Rail
- Roofs including green
- Tunnels
- Water Supply
- Built Environment including Leisure facilities
- Car Parks

### Features

- Unparalleled 40 year track record
- Class leading adhesion
- Weather resistant
- Excellent crack bridging properties
- Tear resistance
- Abrasion resistance
- Water vapour & gas permeability
- Sound installation
- Chemical resistance
- Homogenous watertight seal
- Resistant to root / microbial attack
- Low flammability rating

### System Build Up:



### Technical Data

Property	Value
Density	0.85-0.95
Shore A Hardness	80
Rebound Resilience	26%
Elongation at Break	>250%
Tensile Strength	28KN/m
Low Temperature Flexibility and Crack Bridging	Conforms
Static and Dynamic Crack Bridging Test	In Extension 14mm
Crack Endurance	Undamaged
Bending Test	Undamaged
Resistance to Flow and Heat	Undamaged
Abrasion Resistance	160mm <sup>3</sup>
Glass Transition Temperature	-40°C + 110°C
Water Tightness	-42°C
CO <sup>2</sup> Water Vapour Permeability	Watertight
Water Absorption	Confirmed 486, sd=1.0m
Resistance to Chlorides	7.6 x 10 <sup>-7</sup> kg/m <sup>2</sup>
Stored in unopened containers, under these conditions, the components have a shelf life of twenty four months.	Resistive

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Pull Off/Adhesion to Concrete	370 psi
Pull Off/Adhesion to Steel	855 psi
Water Vapour Transmission	0.1
Artificial Weathering—1000 hours	
Requirement Elongation +10% -20%	+6.0%
Requirement Tensile +10% relative	+0.9%
Electrical Resistivity	91 x 10 <sup>6</sup> ohm—cm
Puncture Resistance	174 kgf

### Installation:

#### Preparation:

The concrete deck must be clean, dry and free from ice, laitance, loose aggregate, oil, grease, moss, algae growth, dust and other debris, and where the adhesion to the concrete would be impaired, free from curing liquids, compounds and membranes.

#### Application:

PMCS/01 Primer should be applied by airless spray, or by roller or brush dependent on the porosity of the concrete deck.

The primer should be over-sprayed with PmB waterproofing membrane within 24 hours of application, provided the primed surface is clean and dry.

The PmB waterproofing, components A and B are stored in temperature controlled tanks, maintained at 50°C to 80°C, within the spray equipment plant during application

#### Tack Coat:

The appropriate tack coat should be applied to the fully cured waterproofing membrane only in areas due to receive APL or HRA surfacing.

#### Surfacing:

The rolling temperatures of the surfacing must not fall below the minimum reactivation temperature requirement for the tack coats.

#### Cleaning:

All tools and equipment should be cleaned with Acetone

before the material is allowed to cure.

Note: All components of PmB should be stored in cool, dry protected conditions out of direct sunlight.

Storage temperatures must not exceed 50°C. Do not store near naked flames or foodstuffs.

### Country Approvals

- UK
- Germany
- Switzerland
- Canada
- UAE
- Qatar
- Taiwan
- Romania
- China

### Ancillaries:

Pitchmastic PmB International provide a range of products to compliments the Britdex MDP system. These include:

- Britdex MDP—Methyl Methacrylate Waterproofing
- Bridge expansion joints
- PDS - Lightweight kerb and drainage units

### Health and Safety:

It is the company's policy to take all reasonable steps to prevent injury to all property and personnel from foreseeable hazards. This extends to the public in so far as they come into contact with the company or its products.

### Accreditations/Associations:



### CE Marking:

0086	
Nufns, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA 13 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 kg/m <sup>2</sup> /h <sup>0.5</sup>
Adhesion	≥1.5 MPa
Dangerous substances	Complies with 5.4