

## Pitchmastic PmB

### High performance structural waterproofing

#### DESCRIPTION

Pitchmastic PmB is a two-part polyurethane elastomer for structural waterproofing works. The spray-applied membrane gels in seconds to provide a seamless, fully adhered barrier to ingress of water and contaminants. Pitchmastic PmB offers clients the perfect balance between design, aesthetics and practical performance with a successful track record of more than 30 years worldwide.

#### PRIMARY APPLICATIONS

- Tunnels and walls
- Roofing
- Plaza decks
- Balconies
- Special applications
- Sewage and waste water treatment plants
- Concrete canals and aqua ducts
- Swimming pools and water works

#### ADVANTAGES

- Rapid installation and cure allow for application to horizontal, vertical and soffit surfaces
- Superior crack-bridging and adhesion properties
- Can be applied to new concrete (24 hours to 7 days old), at temperatures as low as 0°C
- Spray application ensures seamless protection around difficult detailing and penetrations
- Requires no pre-application termination joints or coves
- Low odour
- Solvent free
- Excellent chemical resistance
- Fully tested puncture resistance capabilities
- Effective root barrier in landscaped areas and green roofs
- Suitable for use in areas permanently immersed in water
- Negative side application

#### STORAGE

Store material overnight to precondition to between 21 and 27°C prior to use.

#### ENVIRONMENTAL PROTECTION

Cured material is environmentally safe. Dispose of in according to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local regulations.

#### SHIPPING

Shipping Class: Motor Freight Class 60  
Hazard Classification: Corrosive. Class 8. UN 1760.

#### HEALTH & SAFETY

##### *Safety*

Safety Glasses, gloves, avoid skin contact, do not ingest, for professional use only, see SDS. For use in well ventilated areas only to keep vapour concentrations low. Use mechanical ventilation if necessary. Use self contained breathing apparatus in confined areas.

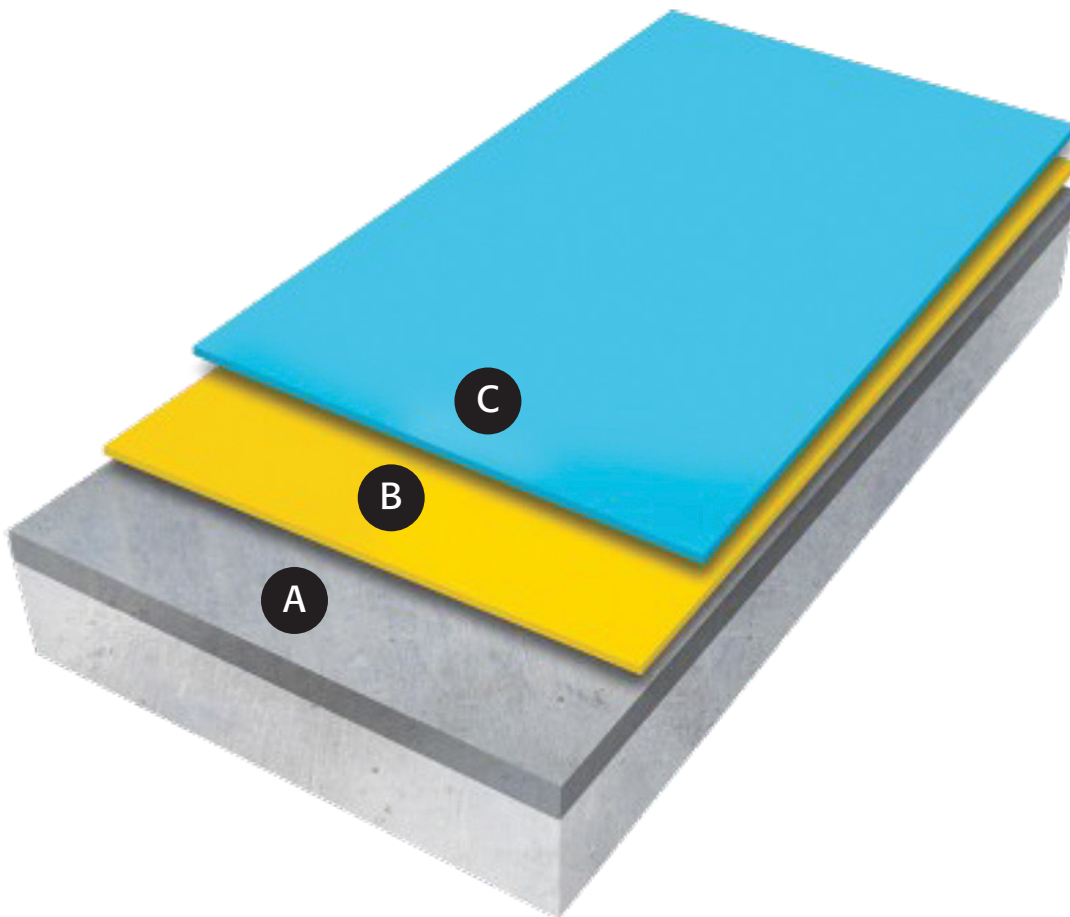
##### *First Aid*

**Eye Contact:** Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area and wash with soap and water immediately.

## SYSTEM BUILDUP

	STEPS	PRODUCTS	PROCESS
A	Surface preparation		Surface to be captive blasted using Autoblaster Machine 16 ES or similar to remove all contaminants, loose materials, laitance of any curing membrane residue to enable the adhesion value of 0.75N/mm <sup>2</sup> .
B	Primer	PMCS/01	<ul style="list-style-type: none"> <li>Applied to a clean prepared substrate at ambient temperature between 0°C - 35°C and shall not have more than 6% of moisture content.</li> <li>Primer may be applied by brush, roller or spray at a nominal mist of 40-65 grams per square meter.</li> </ul>
C	Body coat	Spray Waterproofing Membrane (PmB 0308 and 0309 )	<ul style="list-style-type: none"> <li>Pitchmastic PmB applied by low pressure spray equipment.</li> <li>The membrane is applied to achieve minimum film thickness of 2.00mm.</li> <li>Thickness can be increased depending on application requirements.</li> </ul>

### Typical build-up of the Pitchmastic PmB roof system



- A. Concrete, steel, masonry surface
- B. Primer
- C. Pitchmastic PmB membrane

## TECHNICAL INFORMATION

PROPERTY	VALUE
<b>Density</b> of spray applied elastomer, DIN 53479 mg/m <sup>3</sup>	0.85 - 0.95
<b>Shore A Hardness</b> BS903 Part A2 at 23°C	80
<b>Rebound Resilience</b> BS903 Part A8 at 23°C	26%
<b>Elongation At Break</b> ASTM D638 exceeds 80% requirement	>250%
<b>Tensile Strength</b> ASTM D638 exceeds 930 psi requirement	1815 psi
<b>Tear Strength</b> BS903 Part A3 23°C	28KN/m
<b>Low Temperature Flexibility &amp; Crack Bridging Ability</b> ASTM test method Cert C836 at -26°C	Conforms
<b>Static &amp; Dynamic Crack Bridging Test</b> BRE tested method EN1062-7 +23°C and -10°C maximised	In extension 14mm
<b>Crack Endurance</b>	Undamaged
<b>Bending Test</b> Temperature range -20°C to -50°C	Undamaged
<b>Resistance To Flow &amp; Heat</b> Flow Test 70°C Heat Test 240°C	No effect undamaged
<b>Abrasion Resistance</b> DIN 53516m <sup>3</sup> Retention of mechanical properties, torsion modules DIN 53443	160mm <sup>3</sup> -40°C + 110°C
<b>Glass Transition Temperature</b> DIN 53445	-42°C
<b>Water Tightness</b> University of Braunschweig 72 hours at 7 bar pressure. 15m in sweater = 1.5 bar	Watertight
<b>CO<sub>2</sub> Water Vapour Permeability</b> University of Braunschweig DIN 52615 test report 437/5043-1	Confirmed 486, sd = 1.0m
<b>CO<sub>2</sub> Permeability Englefield</b> U = 64,000 Sd = 15.0m	Confirmed
<b>Water Absorption Coefficient</b> DIN 52617 E	7.6 x 10 <sup>-3</sup> kg/m <sup>2</sup>
<b>Resistance To Chlorides</b>	Resistive
<b>Pull Off / Adhesion To Concrete</b> ASTM D4541 requirement	370 psi
<b>Pull Off / Adhesion To Steel</b> ASTM E96 procedure BW	855 psi
<b>Water Vapour Transmission</b> ASTM E96 procedure BW English units grams /ft / hr no requirements Metric units grams / m <sup>2</sup> / 24 hours no requirements	0.1 1.7
<b>Artificial Weathering - 1000 hours</b> ASTM D4587 evaluate changes On elongation & tensile strength Requirement Elongation +10% -20% Requirement Tensile ±10% relative	+6.0% +0.9%
<b>Electrical Sensitivity</b> ASTM test method D257 Requirements >5 x 10 <sup>3</sup> ohm - cm	91 x 10 <sup>6</sup> ohm-cm
<b>Puncture Resistance</b> ASTM test method E154 Requirements 95kgf min	174 kgf

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