

# Blueskin<sup>®</sup> WP 200

## Self-Adhesive Waterproofing Membrane

### Physical Properties

|   |  |   |   |
|---|--|---|---|
| -Colour                                       | Blue   | -Minimum Puncture Resistance – Membrane (ASTM E154) | 222 N/m                                   |
| -Thickness                                    | 1.5 mm (60 mils)                                 | -Flexibility at -40°C (ASTM D1970)                  | Pass                                      |
| -Application Temp                             | -5°C and above                                   | -Water Vapour Transmission (ASTM E96)               | 1.6ng/Pa.s.m <sup>2</sup><br>(0.02 perms) |
| -Elongation (ASTM D412)                       | 300% (To ultimate failure of rubberized asphalt) | -Lap Peel Strength @ 5°C (ASTM D1876)               | 880 N/m                                   |
| -Tensile Strength (Membrane)                  | 2.24 MPa   | -Hydrostatic Head (ASTM D5385)                      | 70 m of water                             |
| ASTM D412 – modified                          |  | -Moisture Absorption (ASTM D570-81)                 | 0.2% maximum                              |
| -Tensile Strength (Film) ASTM D882            | 34.5 MPa   |   |   |
| -Peel Strength (ASTM D903)                    | 1576 N/m   |   |   |
| -Crack cycling @ -32°C 100 cycles (ASTM D836) | Unaffected                                       |   |   |

### Packaging

|                 |  |                              |  |
|-----------------|--|------------------------------|--|
| -Thickness      | 1.5 mm (60 mils)                         | -Gross Coverage 914 mm (36") | 18.6 m <sup>2</sup> (200 ft <sup>2</sup> ) |
| -Roll Length    | 20.3 m (66.7 ft.)                        | -Net Coverage* 914 mm (36")  | 17.3 m <sup>2</sup> (186 ft <sup>2</sup> ) |
| -Roll Width     | 914 mm (36")                             |                              |  |
| -Top Surface    | Blue cross-laminated polyethylene (HDPE) |                              |  |
| -Bottom Surface | Siliconized Release Film                 |                              |  |

\*Based on 65 mm laps both sides and end laps.

### Description

**Bakor Blueskin<sup>®</sup> WP 200** is a self-adhesive membrane which consists of an SBS rubberized asphalt compound which is integrally laminated to a blue, high density cross-laminated polyethylene film. **Blueskin<sup>®</sup> WP 200** is specifically designed to be self-adhered to a prepared substrate providing a high-performance waterproofing barrier.

### Features

- SBS membrane flexible at low temperatures
- Fully adhered system prevents lateral water movement
- No flame required
- Factory controlled thickness
- Negligible odour during application

### Uses

**Bakor Blueskin<sup>®</sup> WP 200** is designed for use on concrete foundation walls, plaza decks, tunnels, and parking decks in both vertical and horizontal orientations. **Blueskin<sup>®</sup> WP 200** is an ideal membrane for use in interior applications such as mechanical rooms, laboratories and wet-rooms.

### Limitations

Non-resistant to oils and solvents. Not designed for use in direct contact with potable water or permanent exposure and must be covered to prevent damage from sunlight. Good practice calls for the membrane to be covered immediately following application. Refer to minimum cure time requirements of sealant and mastics prior to applying polystyrene insulation. Use **Bakor 200-32 Rubber Asphalt Emulsion** with polystyrene form foundations. Do not use in contact with flexible PVC/vinyl products.

## Blueskin® WP 200 Self-Adhesive Waterproofing Membrane

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### Storage

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Store **Blueskin® WP 200** on original pallets or elevated platform. Protect from weather elements or store in an enclosed area below 49°C.

### Preparation

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Acceptable substrates are cast-in-place concrete, precast concrete, wood, concrete block, and polystyrene insulation form foundations. Parging of concrete blocks is not required. All surfaces to receive **Blueskin® WP 200** must be clean of oil, dust and excess mortar. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured to a minimum of 7 days and must be dry and free from frost before **Blueskin® WP 200** is applied. Structural lightweight concrete must be cured 14 days. Where curing compounds are used they must be clear resin based, without oil, wax or pigments.

Prime substrate using **Bakor Aquatac™ Emulsion Primer** applied by spray or roller at a rate of 7 m<sup>2</sup>/litre (300ft<sup>2</sup>/3.78L can) and allow to dry thoroughly before applying **Blueskin® WP 200**. In cold weather applications substitute with **Bakor Hi-Tac™ Construction Adhesive and Primer** applied at a rate of 80 to 250ft<sup>2</sup> / gal. U.S. Primed surfaces not covered by membrane during the same working day must be reprimed.

### Application

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**Blueskin® WP 200** should be conditioned at room temperature for ease of application.

Refer to **Blueskin® WP 200** Guide Specification for detailed application information.

*Where polystyrene foundation forms are used, substitute Aqua-Bloc® 720-38 Rubber Asphalt Emulsion for POLYBITUME® 570-05 Polymer Modified Sealing Compound.*

**Joint and Crack Treatment:** All cracks in concrete 1.5 mm to 3 mm wide are to be pre-treated with a 1.5 mm (60 mil) coating of **POLYBITUME® 570-05 Sealing Compound** 50 mm wide centered on the crack. Alternately, apply a 150 mm wide strip of **Blueskin® WP 200** centered over crack. Provide 75 mm end laps. Horizontal to vertical inside corner transition areas are to be pre-treated with a **POLYBITUME® 570-05 Sealing Compound** fillet extending 19 mm vertically and horizontally from the corner. Apply a minimum 225 mm strip of **Blueskin® WP 200** centered at the joint. All outside corners are to be pre-treated with a minimum of 225 mm strip of **Blueskin® WP 200** centered at the joint.

**Drains:** At drains, apply **Blueskin® WP 200** collar centered on drain and extend 150 mm beyond flange onto deck. Apply field membrane in full width centered over drain. Apply clamping ring in a 1.5 mm (60 mil) bed of **POLYBITUME® 570-05 Sealing Compound**.

**Projections:** Extend **Blueskin® WP 200** tight to projection and seal with **POLYBITUME® 570-05 Sealing Compound** extending 50 mm along projection and 50 mm onto **Blueskin® WP 200**.

**Vertical Applications:** Apply **Blueskin® WP 200** to prepared substrate in lengths of 2400 mm or less. Provide 65 mm laps at both sides and ends. Position for alignment and remove protective film. Press firmly into place. Promptly roll all laps with a counter top roller to effect seal. If more than one length is required on a vertical surface, apply a shingle fashion. Terminate membrane using **POLYBITUME® 570-05 Sealing Compound** or termination bar, reglet or counter flashing as indicated. Refer to manufacturers standard details. All laps within 300 mm of 90° change in plane are to be sealed with **POLYBITUME® 570-05 Sealing Compound**.

**Horizontal Applications:** Apply **Blueskin® WP 200** to prepared substrate beginning at the low point of the surface and working to the high point in a shingle fashion. Provide 65 mm side and end laps. Roll membrane immediately over entire surface to effect seal. At all terminations and T-joints, seal laps using **POLYBITUME® 570-05 Sealing Compound**. All laps within 300 mm of a 90° change in plane are to be sealed with **POLYBITUME® 570-05 Sealing Compound**.

### Protection of Membrane

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It is recommended to protect **Blueskin® WP 200** in both horizontal and vertical areas. **Bakor 990-31 Protection Board** may be used for most applications. **Asphaltic Protection Board** can also be used for additional protection. < >