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BITUMENIOUS SHEET

SELF-ADHESIVE WATERPROOFING MEMBRANE

GWC IS PROUD TO BE ASSOCIATED WITH RENOWNED MANUFACTURERS OF WATERPROOFING MEMBRANE MADE OF BITUMEN; BYD

Physical properties: Conforms to CCMC 13927-R for use as a waterproofing membrane

Color	Aluminum foil (any color)	Minimum Puncture	222N/m
Thickness	From 1mm to 5mm	Resistance –Membrane	(ASTM E154)
Application Temp	-5°C and above	Flexibility at -40°C	Pass
Elongation	300% (To ultimate failure of	(ASTM D1970)	
(ASTM D412)	Rubberized asphalt	Thermal Conductivity	0.022
Tensile Strength	2.24 Mpa	EN 13165)	
(Membrane)		(Thermal conduction	Ad:0.27W/ (m.K)
ASTM D412- modified		Coefficient)	until 120mm
Tensile Strength	34.5 Mpa	Compressive Strength	
(Film) ASTM D882		@10% deformation:	175 kpa
Peel Strength	80N/5cm	Transmission	(0.02 perms)
(ASTM D903)		(ASTM D1876)	
Crack cycling @-32°C	Unaffected	Hydrostatic Head	70m of water
100 cycles(ASTM D836)		(ASTM D5385)	
Water Vapor	1.6ng/Pa.s. m ²	Moisture Absorption	0.2% maximum
		(ASTM D570-81)	



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Description

BYD SHEET is a self-adhesive membrane which consists of an SBS rubberized asphalt compound which is integrally laminated to a black, high density cross-laminated polyethylene film. BYD SHEET 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 odor during application

Uses

BYD SHEET is designed for use on concrete foundation walls, plaza decks, tunnel, and parking decks in both vertical and horizontal orientation. BYD SHEET is an ideal membrane for use in interior applications such as mechanical rooms, laboratories and wet-rooms. For waterproof Roofing- New & remodeling.

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



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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 Rubber Asphalt Emulsion with polystyrene form foundations. Do not use in contact with flexible PVC/vinyl products.

Storage

Store BYD SHEET on original pallets or elevated platform. Protect from weather elements or store in an enclosed area below 49°C.

Preparation

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 BYD SHEET 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 BYD SHEET is applied. Structural lightweight concrete must be cure 14 days. Where curing compounds are used they must be clear resin based, without oil, wax or pigments.

Prime substrate using Emulsion Primer applied by spray or roller at a rate of 7 m² /litre (300ft²/3.78L can) and allow to dry thoroughly before applying BYD SHEET. In cold weather applications substitute with Construcion Adhesive and Primer applied at a rate of 80 to 250 ft²/gal. U.S. primed surfaces not covered by membrane during the same working day must be re-primed.



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Application

Should be condition BYD SHEET at room temperature for ease of application.

Refer to BYD SHEET Guide Specification for detailed application information.

Where polystyrene foundation forms are used, substitute Rubber Asphalt Emulsion for Polymer Modified Sealing Compound.

Joint and Crack Treatment: All cracks in concrete 1.5mm to 3mm wide are to be pre-treated with a 1.5mm(60mils) coating of Sealing Compound 50mm wide centered on the crack. Alternately, apply a 150mm wide strip of BYD SHEET centered over crack. Provide 75mm end laps. Horizontal to vertical inside corner transition areas are to be pre-treated with a Sealing Compound WP 200 centered at the joint. All outside corners are to be pre-treated with a minimum of 225mm strip of BYD SHEET centered at the joint.

Drains: At drains, apply BYD SHEET collar centered on drain and extend 150mm beyond flange onto deck. Apply field membrane in full width centered over drain. Apply clamping ring in a 1.5mm (60mils) bed of Sealing Compound.

Projections: BYD SHEET tight to projection and seal with Sealing Compound extending 50mm along projection and 50mm onto BYD SHEET



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Vertical Applications: Apply BYD SHEET to prepared substrate in lengths of 2400mm or less. Provide 65mm 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 Sealing Compound or termination bar, ringlet or counter flashing as indicated. Refer to manufacturers standard details. All laps within 300mm of 90° change in plane are to be sealed with Sealing Compound.

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

Protection of Membrane

It is recommended to protect BYD SHEET in both horizontal and vertical areas. Protection Board may be used for most applications. Asphaltic Protection Board can also be used for additional protection.

Warranty of Membrane

Under ordinary weather(-40 to 40 degree).BYD SHEET can guarantee 15 years lifetime