

# Blueskin® TG

## Thermofusible Grade Air/Vapour Barrier Membrane

### Physical Properties

-Colour	Black	-Air Permeability (Applied to a concrete block wall. Tested at 22°C)	
-Thickness	Approx. 2.5 mm (100 mils)	<u>Pressure (Pa)</u>	<u>Air Leakage (L/s.m2)</u>
-Application Temp	No restriction	75	0.000
-Service Temp	Minus 40°C to 70°C	250	0.002
-Elongation	MD 40%	500	0.003
(ASTM D412-modified)	XD 40%		
-Low Temperature Flexibility (CGSB-37-GP-56M)	Minus 15°C	-Resistance to Gust Wind Load	Resists a suction pressure of 3000 Pa maintained for 10 seconds with no increase in air leakage rate when tested at 75 Pa.
-Tensile Strength	MD 300 N/5 cm XD 250 N/5 cm		
-Water Vapour Permeance (ASTM E96)	0.2 ng/Pa.m <sup>2</sup> .s (0.003 perms)	-Resistance to Sustained Wind Load	Resists a suction pressure of 1000 Pa maintained for 1 hour with no increase in air leakage rate when tested at 75 Pa.

### Packaging

-Thickness	2.5 mm (100 mils)	-Top Surface	Polyethylene
-Roll length	10.0 m (32.8 ft)	-Bottom Surface	Poly
-Roll width	914 mm or 457 mm		
-Gross Coverage	9.14 m <sup>2</sup> , 6.6 m <sup>2</sup> or 4.5 m <sup>2</sup>	*Coverages based on 50 mm side and end laps.	
-Net Coverage	8.59 m <sup>2</sup> , 6.07 m <sup>2</sup> or 4.05 m <sup>2</sup>		

### Description

**Blueskin® TG** is an SBS modified bitumen membrane reinforced with non-woven fiberglass. **Blueskin® TG** is specifically designed to be fused to the substrate by heating the lower surface with a propane torch.

### Features

- SBS modified membrane, flexible at low temperatures
- Can be applied at low temperatures
- Light in weight to provide ease of application
- Provides excellent adhesion to concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, drywall and plywood
- Impermeable to air, moisture vapour and water
- Membrane is self-sealing when penetrated with self-tapping screws

### Uses

**Blueskin® TG** has been designed for use as a thermofusible air barrier and is impermeable to air, moisture vapour and water. As an air barrier, its principal application is on walls of masonry, concrete, or drywall. Because of its excellent strength and adhesion it can also be used in conjunction with **Bakor Liquid Membranes** as a transition sheet at connections to beams, columns, windows and curtain walls. **Blueskin® TG** can also function as a waterproofing membrane on walls and decks.

### **Limitations**

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Non-resistant to oils and solvents. Flame should not be used where it presents a danger to the project. Use proper equipment for safety when using a torch. Keep fire extinguishers in good condition and close to work station. Surface film may release on extended exposure to U.V. Release of surface film does not appreciably affect the air barrier qualities of the product but does affect appearance. Good practice calls for covering as soon as possible. Not designed for permanent exposure. Some sealants may discolor if in contact with the asphalt compound or may soften the asphalt compound. Contact sealant manufacturer for more information.

### **Preparation**

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Acceptable substrates are precast concrete, cast-in place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, gypsum board including DensGlass Gold®. All surfaces to receive **Blueskin® TG** must be clean of oil, dust and excess mortar. Strike masonry joints flush.

Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days. Where curing compounds are used they must be clear resin based, without oil, wax or pigments. Surfaces should be dry. Very small amounts of dampness can be overcome on concrete and masonry surfaces by applying heat with a torch.

Priming is not required on concrete block or plywood. Concrete surfaces should be primed with **Bakor 910-02** or **930-18** applied at a rate of 4 m<sup>2</sup>/l. Allow primer to cure completely. Consult **Henry Canada** for adhesion to other surfaces.

### **Application**

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

**Blueskin® TG** can be applied in a vertical or horizontal fashion. It is common practice to apply horizontally, where brick ties are in place on 400 mm centres. The 450 mm width of thermofusible membrane allows for overlapping 50 mm. **Blueskin® TG** must be lapped a minimum of 50 mm on both sides and end laps.

Apply heat to the underside of membrane by propane torch. Apply sufficient heat to make the bitumen tacky and press **Blueskin® TG** onto the substrate. Cut **Blueskin® TG** at ties, heat area around the tie and use trowel to form a tight seal around projection. Detail work must be carefully carried out to ensure continuous air tightness of **Blueskin® TG**. Reinforce corners with a piece of **Blueskin® TG** and use heated trowel to ensure joints are tight.

### **Insulation Application to Membrane**

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The use of mechanical fasteners through **Blueskin® TG** along changes in plane, such as inside corners, may be required by some insulation manufacturers. Consult insulation manufacturer prior to installation of insulation.

**Insulation Clips:** Insulation clips should be mechanically fastened through **Blueskin® TG** as per fastener manufacturers recommendations. Install number of insulation clips as recommended by insulation manufacturer.

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