

1 of 3 Pages

Description

A one component solvent based, polymer modified bitumen, liquid membrane designed to resist air leakage when applied to construction surfaces while remaining permeable to the passage of water vapour.

Features:

- Cold applied by trowel or spray.
- Excellent adhesion to most construction surfaces such as masonry, concrete, stone, wood, gypsum board metal and rigid insulation.
- Compatible with polystyrene insulation.
- Seals around projections such as brick ties.
- Cures to a flexible film.
- Minimal shrinkage on curing provides crack filling as well as bridging capability.
- High water vapour permeance provides "breather" characteristic.
- Provides weather and water resistant coating.

Uses

Used to provide an air and water barrier on exterior construction surfaces such as masonry, concrete, exterior grade gypsum or rigid insulation in systems utilizing an interior vapour barrier such as polyethylene film where the entrapment of water vapour is to be avoided. Can be installed on the cold side of the wall assembly without trapping moisture

Limitations

Avoid use in areas where solvent vapour may taint food or other susceptible products. Avoid use over polystyrene insulation where surface temperatures are expected to exceed 40⁰ C as damage to insulation can occur.

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, excess mortar or other contaminants. New concrete should be cured for a minimum of 14 days before AIR BARRIER 9806 is applied. Concrete surfaces should be free of large voids and spalled areas.

Joint & Crack Treatment

Joints between panels of exterior grade gypsum, plywood and rigid insulation up to 6 mm (1/4") wide shall be filled with a trowel application of AIR BARRIER 9806 and reinforced with a strip of 50 mm (2") wide glass fibre tape prior to application of liquid membrane. Joints wider than 6mm (1/4") between panels of rigid insulation are not permitted.

2 of 3 Pages

Cracks in masonry and concrete up to 6 mm (1/4") wide shall be filled with a trowel application of AIR BARRIER 9806 allowed to cure overnight prior to application of the liquid membrane to the surface. Cracks wider than 6 mm (1/4") should be sealed with a peel and stick elastomeric membrane adhered to the substrate lapped a minimum of 75 mm (3") on both sides of the crack. Surfaces should be tied in with beams, columns, window and door frames, etc. using strips of elastomeric peel and stick membrane lapped a minimum of 75 mm (3") on both substrates. Mechanical attachment should be made to all window and door frames, or a properly designed sealant joint provided.

Physical Properties

COLOUR	-	Black
SOLIDS BY WEIGHT	-	68% (approx)
DENSITY	-	(0.95 kg/l) (7.9 lbs/US gal.)
COVERAGE	-	3 to 5 litres per sq. metre
	-	(6 to 10 Imp. gal. per 100 sq. ft.)
	-	(7 to 12 US gal. per 100 sq. ft.)
DRYING TIME	-	@ 50% R.H. 20°C (68°F)
Touch Dry	-	8 hours
Firm Dry	-	48 hours
Through Dry	-	30 days
SERVICE TEMP.	-	Minus 40°C to 60°C
APPLICATION TEMP.	-	Minus 12°C minimum
FLAMMABILITY:		
Wet	-	Flammable
Dry	-	Burns
CHEMICAL RESISTANCE	-	Resists salt solutions, mild acids and alkalis. Non-resistant to oil, grease or solvents.
WATER VAPOUR PERMEANCE (ASTM E96 Method E)	-	@ 3mm (1/8") film 243 ng/Pa.sq metres (typical) (4 perms)

AIR PERMEABILITY

(Pa)	<u>PRESSURE</u>		<u>AIR LEAKAGE RATE</u>	
	(lbs/sq ft)	(l/sq m 2)	(CFM/sq ft)	
75	(1.6)	0.054	(0.0108)	
250	(5.2)	0.120	(0.0240)	
500	(10.5)	0.179	(0.0352)	

9806 AIR BARRIER

3 of 3 Pages

RESISTANCE TO GUST
WIND LOAD

Resists a suction pressure of 3000 Pa
(62.8 lb/sq.ft.) for 10 seconds with no delamination.

RESISTANCE TO
SUSTAINED WITH LOAD

Resists a suction pressure of 1000 Pa
(20.9 lb/sq.ft.) maintained for 1 hour with no delamination

Application of Membrane

AIR BARRIER 9806 should be applied by flat trowel or spray at a uniform wet thickness of 3 to 5 mm (0.120" to 0.200"). Care should be exercised to ensure full contact of the membrane around protrusions such as brick ties at the point of contact with the wall.

APPLICATION OF INSULATION TO MEMBRANE:

Insulation adhesive should be applied to the insulation boards in a serpentine pattern to restrict movement of air behind the insulation. Alternatively, apply a full coat notch trowel application of appropriate adhesive for insulation to the back of the board. Press insulation firmly into place.

Clean Up

Use Mineral Spirits

Shelf Life

Up to 6 months in sealed containers. Product will thicken when stored for long periods.

Caution

Contains flammable solvents. Take suitable fire precautions. Do not allow smoking or welding in working area. Keep away from heat and open flame. Use under well ventilated conditions. Keep containers covered when not in use. Harmful if swallowed.