



## Blue Seal Fluid Applied Waterproofing Membrane

### Physical Properties

Water Vapour Permeance (ASTM E-96)	0.21 perms	Resistance to degradation in soil	Excellent
Life Expectancy (ASTM D412/ ASTM D2240)	Exceeds 100 yrs.	Resistance to Bacteria	No attack
Abrasion Resistance	Less than 0.10% weight loss	Resistance to Fungus	No attack
Solvent Resistance	Greater than modified Asphalt	Resistance to Algae	No attack
Resistance to Chemical Attack	Unaffected by chemicals in concentrations normally found in soils	Plastic Flow @ 140F for 5 hrs. Concrete substrate	None
Low Temperature Flexibility	Flexible to -29°C	Tensile Strength (ASTM D412)	390 psi (2.73 Mpa)
Crack Bridging	10+ cycles to 4mm at - 26°C	Adhesion after Immersion (ASTM C794)	(>0.66 Mpa) 10 lb. F/in.
Elongation (ASTM D412)	340%	Hardness, Shore A (ASTM D2240)	77
Water Absorption (ASTM D95)	Less than 0.5%	Colour and appearance wet	Sky blue, soft cream
Solids (wt)	49%	Colour and appearance cured	Ocean blue
		Service temperature	From -13°F (-25°C) to 201°F (95°C)
		Application temperature	Above 32°F (OC)
		Coverage	150 sq. ft. (13.94m <sup>2</sup> ) per 5 US Gal (18.9L)

### Description

A fluid applied, waterproofing membrane for vertical and horizontal building elements below grade such as walls, slabs, decks. Blue Seal prevents the passage of water under hydrostatic, dynamic or static pressure. Can be applied over a variety of substrates, including concrete, polystyrene, insulated concrete forms, wood, steel, preserved wood, pre-cast concrete, an other common surfaces.

### Uses

- Waterproofing of foundation walls, planters, elevator shafts, and tunnels
- Sloped, horizontal and vertical surfaces
- For new construction or retrofit waterproofing
- Ideal for commercial, industrial and institutional waterproofing applications

### Features

- Quick and easy to apply. Can be applied by spray, brush or trowel
- Simplifies detailing; assures a monolithic, seamless membrane regardless of the substrate finish
- No primer necessary
- Low permeability
- Conforms well to complex surfaces
- Highly flexible. Bridges cracks up to 1.5mm (1/16")
- Non-toxic. No VOC content. Environmentally friendly. No health hazards
- Paintable
- Excellent bonding strength
- VCC (Visual Coverage Control). Properly applied, cures to an ocean blue color. Insufficient coverage dries to a translucent film

# Blue Seal Waterproofing Membrane

---

## Packaging

---

18.9 litre (5 US gallon) pail, 205 litre (55 US Gallon) drum

## Coverage

---

A 18.9 litre (5 US gallon) pail will cover 150 sq. ft. (13.94 m<sup>2</sup>) at 60 mil (1.6mm) thickness

## Storage and Handling

---

Keep containers tightly sealed. Store between 2°C (35°F) to 32°C (90°F)

## Limitations

---

Do not apply when temperature is, or is expected to drop below 5°C (40°F) within 24 hours.

## Surface Preparation

---

The success of the waterproofing project relies on a 100% effective bond to the substrate. In order to achieve complete adhesion the substrate must be relatively smooth, clean, solid, free of scaling, excessive honeycombing, loose material, frost, dirt, oil, grease, curing compounds and any other foreign material which could be detrimental to the adhesion of the **Blue Seal** membrane. Concrete surfaces should have a wood float finish or smoother.

The following preparatory requirements should be included under the waterproofing section of the specification:

- 1) Remove all loose or foreign material from the surface to be waterproofed
- 2) Fill imperfections in the substrate with U-PLASTER MIX.

## Application

---

- **Blue Seal** can be spray, trowel or brush applied to achieve a dry film thickness of 0.8mm (30 mils). If using airless spray equipment, the **Blue Seal** is applied using alternating horizontal and vertical passes (cross-hatch pattern) to ensure complete coverage of substrate and that all penetrations are sealed watertight.
- All filters must be removed from airless spray equipment which must first be capable of spraying 1.2 gallons per minute at 2400 psi with a tip size of 0.27 to 0.031 inches. If spraying from a drum and using a 3/8" hose with a minimum length of 300 ft., one man can apply approximately 370 square meters in 3 ½ hours
- Protection board or insulation may be applied to **Blue Seal** membrane after letting it cure for at least 24 hours. Backfill can be done immediately after protection board is installed.
- Protection Board or insulation is to protect the membrane from damage by backfill, overburden, concrete, asphalt, pavement or pavers.
- Fanfold type EPS or EXPS protection board such as 6mm (1/4") Fan Folded Extruded Polystyrene Protection Board, is recommended. Once applied to the still tacky membrane, this protection board or insulation cannot be removed without damage to the protection board, the membrane or both. Do not backfill before the recommended 24 hour period has elapsed.

**Maintenance:** **Blue Seal** does not require any maintenance in the normal course of events. If the coating should become damaged, these areas can easily be repaired by re-applying **Blue Seal** over the affected areas. Cold joints or re-coating is not a problem; newly applied material easily blends and bonds with existing **Blue Seal** to provide a monolithic membrane.

## Caution

---

Avoid contact with eyes. Use protective eyewear. If product gets into eyes, flush repeatedly with water and seek medical attention immediately. Wear normal protective work clothing. If swallowed, do not induce vomiting and seek medical attention promptly.

## Blue Seal Waterproofing Membrane

---

### Limited Warranty

---

We, the manufacturer, warranty only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES:** The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.