

Durex® Blue Shield

Flexible Latex Copolymer Air Barrier & Waterproofing Membrane

- Description** Durex® Blue Shield is a single component, liquid applied, water-based copolymer rubber air barrier and waterproofing membrane. Applied by roller, trowel or spray equipment, it cures to form a tough, seamless, elastomeric membrane, which is resistant to air leakage and water ingress under hydrostatic pressure. In its liquid state, Durex® Blue Shield is light blue in colour and cures to a translucent dark blue colour.
- Uses** Durex® Blue Shield is used as an air barrier within the building envelope and as a seamless waterproofing membrane. It may be applied to most common surfaces and integrated into various wall systems in both new construction and restoration. Durex® Blue Shield is a Class III Air Barrier and a water penetration barrier at a maximum wet or dry film thickness of 0.39 mm. Typical uses are:
- Water penetration/air barrier for EIFS application
 - New & existing foundation walls
 - Plywood, cement board & exterior grade gypsum board sheathing
 - Exterior walls of mechanical and electrical rooms
 - Split slab waterproofing
 - ICF - Insulated Concrete Forms
- Advantages**
- Highly flexible, bridges cracks up to 1/16" which may form in the substrate
 - Liquid application assures a monolithic, seamless membrane
 - Water resistive (WRB) air/vapour barrier membrane. Prevents air leakage and water ingress through porous building materials.
 - Remains firmly bonded to the substrate even when applied over damp surfaces
 - Water-based technology allows for simple and safe application and easy clean up
 - Can be sprayed
 - Excellent for waterproofing foundation walls constructed with ICF (Insulated Concrete Forms)
 - Results in a paintable finish
- Limitations** Durex® Green Guard Plus is not recommended for use:
- When ambient, surface and material temperatures are below 2°C (35°F) during application and curing period
 - As a permanently exposed membrane

TECHNICAL DATA

PHYSICAL PROPERTIES

Product type	Water based copolymer
Appearance	Light blue viscous material in its liquid state
Specific Gravity	0.98
Ph Level	6.0
Vapour Pressure	(mmHg) 17 @ 20°C
Boiling Point	Approx. 100°C
Application Temperature	Above 5°C (40°F)
Coverage	25-28 m ² (250-300ft ²) per 18.9L (5 gal) pail at 1mm (40 mil) wet film thickness or at 0.05mm (20 mil) dry film thickness

	METHOD	RESULT
Bond Strength	ASTM D-321	0.51 MPa (73.3 psi)
Tensile Strength	ASTM D-412	2.73 MPa (390 psi)
Elongation	ASTM D-412	340%
Plastic Flow		No sagging at 60°C for 5 hours
Air Leakage	ASTM E-283-91 (1999) (NRC Classification)	0.0001L/(s.m ²) Type III Air Barrier
Water Vapour Permeance	ASTM E-96	48 ng/Pa.s.m ² @ 1mm (wet), 0.39 mm (dry)

* When Durex® Blue Shield is intended to be used as an air barrier the application thickness should not exceed 1.0 mm WET (0.39 mm DRY)

Application Substrate must be dry, clean, sound and free of weak and powdery surfaces, dust, dirt, oil, grease and other deleterious materials, which may be detrimental to Durex® Blue Shield during or after curing. (Consult Durabond Products Limited for questionable substrates). Durex® Blue Shield may be applied by roller, trowel or spray. For spray application, use a

conventional airless unit with a 0.025 tip and a minimum of 3,000 p.s.i.

Curing/ Drying Time	Allow material to dry at air and surface temperature of 2°C (35°F) or higher. Curing time will differ depending on specific application conditions. Relative humidity, temperature and airflow will effect curing time. Average conditions and standard thickness will achieve tack free film in 1 to 3 hours and full cure within 7 days. DO NOT SUBSTITUTE OR COMPENSATE DUREX® BLUE SHIELD WITH WATER OR OTHER ADDITIVES.
Clean up	Durex® Blue Shield is a water-based emulsion and does not require the use of solvents for cleaning up. Use light soap and water to clean uncured material. Cured material is best removed with xylol or by mechanical means.
Storage	Store Durex® Blue Shield containers tightly sealed and store stacked off the ground with ambient temperatures above 2°C (35°F). KEEP FROM FREEZING.
Health and Safety	For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent MSDS sheet containing physical, environmental, toxic and other safety/materials handling data. For Industrial use only. Keep out of reach of children.
Warranty	Durabond Products Limited fully warrants their products when used and applied in strict accordance with the printed instructions on product mixing and product application. In any case Durabond's responsibility shall not exceed either the refund of the purchase price or the replacement of the purchased product
Technical Services	Technical support is available upon request at info@durabond.com . For the latest version of this data sheet, please visit our website at www.durabond.com , call toll free at 1-877-DURABOND (387-2266) or speak with your sales representative.

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