

PRODUCT 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
- prevents air leakage a water ingress through porous building materials
- remains firmly bonded to the substrate even when applied over damp surfaces
- water-based technology allows for simple, 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

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°C)	

Performance Characteristics:

Bond Strength:	0.51 MPa (73.3 psi)	ASTM D-321
Tensile Strength:	2.73 MPa (390 psi)	ASTM D-412
Elongation:	340%	ASTM D-412
Plastic Flow:	No sagging at 60°C for 5 hours	
Air Leakage:	Type III Air Barrier	
	Time	Aw kg/(m ² .s ^{1/2})
	24 hrs	0.001
	48 hrs	0.001
	72 hrs	0.001
		Rating
		Pass
		Pass
		Pass

07190

MOISTURE PROTECTION
LIQUID COPOLYMER BASED
WATERPROOFING MEMBRANE

TECHNICAL DATA (CONT'D.)

Water Vapour Transmission: 48 (ng/Pa·s·m²) ASTM E-96 Procedure B
(1.0 mm 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 NET (0.39 mm DRY)

LIMITATIONS:

DUREX BLUE SHIELD 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

APPLICATION:

DO NOT SUBSTITUTE OR COMPENSATE **DUREX BLUE SHIELD** WITH WATER OR OTHER ADDITIVES.

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.

CHECK WITH **DURABOND PRODUCTS LIMITED** FOR QUESTIONABLE SURFACES.

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.

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.

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:

Keep **DUREX BLUE SHIELD** containers tightly sealed and store stacked off the ground with ambient temperatures above 2°C (35°F). KEEP FROM FREEZING.

COVERAGE:

Average application rate of 25-28 m² (250-300 ft²) per 18.9L (5 gal) pail to achieve a wet film thickness of 1.0mm (40 mil), or a dry film thickness of 0.5 mm (20 mil).

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 products.

TECHNICAL SERVICES:

Technical assistance for unique applications and design is available upon request from **Durabond Products Limited**.

DURabond

Manufacturers and Distributors of High Quality Construction Products

55 Underwriters Road, Toronto, Ontario M1R 3B4

Tel: (416) 759-4474 Toll Free: 1-877-DURABOND (387-2266) Fax: (416) 759-4470

Email: info@durabond.com Website: www.durabond.com

C-11