

PRODUCT DESCRIPTION:

DUREX GREEN GUARD PLUS is a single component, liquid applied, water-based copolymer rubber air/vapour barrier. Trowel or spray applied, it cures to form a tough, seamless, elastomeric membrane, which is resistant to air leakage and vapour transmission. In its liquid state, **DUREX GREEN GUARD PLUS** is light green in colour and cures to a translucent forest green colour.

USES:

DUREX GREEN GUARD PLUS acts as an air/vapour barrier within the building envelope. It may be applied to most common surfaces and integrated into various wall systems in both new construction and restoration. **DUREX GREEN GUARD PLUS** can also be used as an adhesive for expanded polystyrene insulation.

DUREX GREEN GUARD PLUS is a Class III Air Barrier and a Type I vapour barrier.

ADVANTAGES:

- highly flexible, bridges cracks up to 1/16" which may form in the substrate
- liquid application assures a monolithic, seamless membrane
- Type III Air Barrier (NRC classification)
- Type I Vapour Barrier - less than 15 ng/Pa·s·m² (<0.25 perms) as designated by Canadian Building Codes
- remains firmly bonded to the substrate even when applied over damp surfaces
- water-based technology allows for simple, safe application and easy clean up

LIMITATIONS:

DUREX GREEN GUARD 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:	Green viscous material in it's liquid state	
Specific Gravity:	0.98	
Ph level:	6.0	
Vapour Pressure:	(mmHg) 17 @ 20°C	
Boiling Point:	approx. 100°C	
Application Temperature:	Above 2°C (35°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:	0.0001 L/(s·m ²) Type III Air Barrier	ASTM E-283-91 (1999) (NRC Classification)

* The above results are based on averages, including a margin of error, considering that **DUREX GREEN GUARD PLUS** may be applied to various substrates with or without irregularities. **DUREX GREEN GUARD PLUS**, when applied to a uniformly flat substrate, the following result may be expected: 3.0 ng/Pa·s·m² at a thickness of 1.5 mm WET (0.78 mm DRY).

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MOISTURE PROTECTION
LIQUID APPLIED AIR/VAPOUR BARRIER MEMBRANE

TECHNICAL DATA (CONT'D.)

Water Vapour Permeance:	<u>Result</u>	<u>Thickness</u>	ASTM E-96
	48 (ng/Pa·s·m ²)	1.0 mm (wet), 0.39 mm (dry)	
	11 (ng/Pa·s·m ²)	1.5 mm (wet), 0.78 mm (dry)	
	TYPE I Vapour Barrier (NRC Classification)		
Coefficient of water absorption	CCMC 5.51	0.0008 kg/(m ² ·s ^{1/2})	
		@ 1.0 mm WET (0.39 mm DRY)	
		@ 0.0001 kg/(m ² ·s ^{1/2})	
		@ 1.5 mm WET (0.78 mm DRY)	

APPLICATION:

DO NOT SUBSTITUTE OR COMPENSATE DUREX GREEN GUARD PLUS 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 GREEN GUARD PLUS** during or after curing.

CHECK WITH DURABOND PRODUCTS LIMITED FOR QUESTIONABLE SURFACES.

DUREX GREEN GUARD PLUS may be trowel or spray applied. 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 GREEN GUARD PLUS 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 GREEN GUARD PLUS** 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 9.30 m² (100 ft²) per 20-litre pail to achieve a wet film thickness of 2.33-mm (90 mil), or a dry film thickness of 1.15 mm (45 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

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