

# Durex® Green Guard Plus

## Flexible Latex Copolymer Air/Vapour-Barrier Membrane & Water Resistive (WRB)

<b>Description</b>	Durex® Green Guard Plus is a single-component, liquid-applied, water-based copolymer rubber water-resistive (WRB) air/vapour-barrier membrane. Trowel or spray applied, it cures to form a tough, seamless, elastomeric membrane, which is resistant to air leakage and vapour diffusion. In its liquid state, Durex® Green Guard Plus is light green in colour and cures to a translucent forest green colour.
<b>Uses</b>	Durex® Green Guard Plus acts as a water-resistive (WRB) air/vapour barrier within the building envelope. It may be applied to most common surfaces such as concrete, brick, concrete block, glass-mat coated gypsum, cement board, plywood and Oriented Strand Board (OSB), and integrated into various Durex EIFS Systems for both new construction and restoration work.
<b>Features</b>	<ul style="list-style-type: none"> <li>· Highly flexible, bridges cracks up to 2mm (1/16") which may form in the substrate</li> <li>· Liquid application assures a monolithic, seamless membrane</li> <li>· Water-resistive (WRB) air/vapour barrier membrane</li> <li>· Remains firmly bonded to the substrate even when applied over damp surfaces</li> <li>· Water-based technology allows for simple and safe application and easy clean up</li> </ul>

### TECHNICAL DATA

PHYSICAL PROPERTIES	
<b>Product Type</b>	Water-based copolymer
<b>Appearance</b>	Green viscous material in its liquid state
<b>Specific Gravity</b>	0.98
<b>ph Level</b>	6.0
<b>Vapour Pressure</b>	(mmHg) 17 @ 20°C
<b>Boiling Point</b>	Approx. 100°C
<b>Application Temperature</b>	Above 2°C (35°C)
<b>Coverage</b>	Approximately 22m <sup>2</sup> (237ft <sup>2</sup> )/pail @ 1 mm (40 mil) film thickness

PERFORMANCE PROPERTIES	METHOD	RESULT
<b>Bond Strength</b>	ASTM D321	0.51 MPa (73.3 psi)
<b>Tensile Strength</b>	ASTM D412	2.73 MPa (390 psi)
<b>Elongation</b>	ASTM D412	340%
<b>Plastic Flow</b>		No sagging at 60°C for 5 hours
<b>Air Leakage</b>	ASTM E283-91 (1999) (NRC Classification)	0.0001L/(s.m <sup>2</sup> ) Type III Air Barrier * The results listed above 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, when applied to a uniformly flat substrate, the following results may be expected: 3.0 ng/Pa.s.m <sup>2</sup> at a thickness of 1.5 mm WET (0.78mm DRY)
<b>Water Vapour Permeance</b>	ASTM E96	48 ng/Pa.s.m <sup>2</sup> @ 1mm (wet), 0.39 mm (dry) 11 ng/Pa.s.m <sup>2</sup> @ 1.5 mm (wet), 0.78 mm (dry) Type I Vapour Barrier (NRC Classification)
<b>Coefficient of Water Absorption</b>	CCMC 5.5.1	0.0008 kg/(m <sup>2</sup> .s <sup>1/2</sup> ) @ 1.0 mm 0.0001 kg/m <sup>2</sup> .s <sup>1/2</sup> @1.50 mm

**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. DISCARD ALL FROZEN MATERIALS.**

**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® Green Guard Plus during or after curing. (Consult Durabond Products Limited for questionable substrates). 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.

<b>Limitations</b>	Durex® Green Guard Plus is not recommended for use: <ul style="list-style-type: none"> <li>· When ambient, surface and material temperatures are below 2°C (35°F) during application and curing period</li> <li>· As a permanently exposed membrane</li> </ul>
<b>Curing/Drying Time</b>	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. <b>DO NOT SUBSTITUTE NOR COMPENSATE DUREX® GREEN GUARD PLUS WITH OTHER ADDITIVES.</b>
<b>Clean-up</b>	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.
<b>Health and Safety</b>	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.
<b>Warranty</b>	Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.
<b>Technical Services</b>	Technical support is available upon request at <a href="mailto:info@durabond.com">info@durabond.com</a> . For the latest version of this data sheet, please visit our website at <a href="http://www.durabond.com">www.durabond.com</a> , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd. sales representative.

