

Durex® EctoFlex

Flexible Polymer Based Cementitious Waterproofing & Water Resistive Air/Vapour Barrier

Description	Durex® EctoFlex is a two-component, flexible, polymer based cementitious coating designed to prevent moisture ingress, under hydrostatic pressure as well as air leakage and vapour diffusion. Durex® EctoFlex is light grey in colour when fully cured.
Uses	Durex® EctoFlex is used as a waterproofing membrane designed to provide moisture protection in a variety of both vertical and horizontal applications, including foundations walls, tunnels and other earth sheltered structures, plaza decks, mud slabs and other split slab construction, wet rooms and balconies. Durex® EctoFlex can also be used as a water resistive (WRB) air/vapour barrier within the building envelope. It may be applied to most common substrates such as concrete block, cement board, glass-mat coated gypsum board, and brick.
Advantages	<ul style="list-style-type: none"> • Used for both exterior or interior applications • Retains flexibility to -20°C • Very low permeability • Long term weathering • Excellent adhesion • Permanently bridges minor cracks • Water-based technology allows for simple, safe application and easy clean-up • Liquid application assures a monolithic, seamless membrane • Type III Air Barrier (NRC Classification) • Type I Vapour Barrier <math><15\text{ng/pa.s.m}^2</math> (0.25 perms) as designated by Canadian Building Codes
Limitations	<p>Durex® EctoFlex is not recommended for use:</p> <ul style="list-style-type: none"> • When ambient, surface and material temperatures are below 5°C (41°F) during application and curing time. • Over surfaces previously coated with an oil based paint or high gloss paint without the use of a primer.

TECHNICAL DATA

PHYSICAL PROPERTIES

Product Type	Flexible cement (polymer with cement & sand)
Appearance	Grey cementitious slurry
Viscosity	Pourable
Minimum Film Forming Temperature	5°C
Shelf life	1 year
Toxicity	Non-toxic
Coverage	12 m ² /unit (130 ft ² /unit) at 2mm (3/32") thickness 20 m ² /unit (215 ft ² /gal) at 1mm (3/64") thickness

	METHOD	RESULT
Tensile strength	ASTM C190-85	0.35 MPa without mesh
	ASTM C190-85	16.55 MPa with mesh
Elongation		24%
Flexural strength	ASTM C293-70	6.23MPa
Air Leakage	ASTM E283-91	0.0105 L/s.m ² @ 1.00 mm thick
	(NRC Classification)	Type III Air Barrier
Water Vapour Permeance	ASTM E96-95	3.0 ng/Pa.s.m ² @ 1.0mm thick
	(when applied to uniformly flat substrate)	<u>Average Result Thickness</u> 6.0 na/Pa.s.m ² 1.25mm 9.0 na/Pa.s.m ² 1.10mm
		Above results are based on averages including a margin of error considering that Durex® EctoFlex may be applied to various substrates with or without irregularities.
Impermeability to Water	CCMC 6.7	Passed (no dampness after 19 hrs)
Coefficient of Water Absorption	CCMC 5.5.1	0.0007 kg/(m ² .s ^{1/2})
Salt Spray Resistance	ASTM B-117	Passed (300 hours)
Salt Spray Resistance	ASTM D-822	Passed (2000 hours)
Freeze/thaw Resistance	CCMC method	Passed (10 cycles)

- Application** Surfaces to be treated must be dry, clean and free of all ice, snow, dew and frost and all dust, dirt, oil, grease and other deleterious materials detrimental to a positive bond. It is recommended that whenever possible the application of Durex® EctoFlex is carried out in two (2) coats to maximize the performance of this product. However, one (1) coat application is acceptable as long as minimum thickness is maintained and the substrate is uniformly flat and relatively free of pin holes and imperfections. Durex® EctoFlex may be applied by brushing, rolling, or trowel. Apply Durex® EctoFlex in one or two coats, with each coat not more than 1.5 mm thick. The total thickness should not exceed 4 mm (apply a maximum of 2 coats within 24 hrs period). Protect freshly applied coating from inclement weather until coating has fully set and cured. (Consult Durabond Products Limited for questionable substrates).
- Mixing Procedures** Thoroughly mix Durex® EctoFlex before each use. Discard all materials which have formed solid lumps at the bottom of the container and materials which do not appear to be of a homogeneous viscosity. Discard all frozen materials. Discard all material which has begun to harden. Pour 1 part Durex® EctoFlex polymer into large (5 gal.) pail and slowly mix two parts powder (by weight) into liquid mix for 3-5 minutes with a heavy-duty drill (400 rpm to 600 rpm) and a jiffy-type paddler.
- Clean up** Clean all tools promptly after each use with clean water. Do not allow mixes to dry on tools.
- Storage** Store Durex® EctoFlex components at temperatures above 0°C.
- Packaging** A unit consists of a 10 liter jug of latex acrylic polymer and 1 bag (25 kg) of powder.
- 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.

DURabond

HEAD OFFICE
55 Underwriters Road
Scarborough, ON M1R 3B4
T 416.759.4474 F 416.759.4470

MISSISSAUGA
6178 Netherhart Road
Mississauga, ON L5T 1B7
T 905.565.9283 F 905.565.9365

EDMONTON
14345 120th Avenue
Edmonton, AB T5L 2R8
T 780.451.6364 F 780.453.9056

INFO@DURABOND.COM

WWW.DURABOND.COM

1.877.DURABOND (387.2266)

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