

Durex® EctoFlex

Flexible Polymer-Based Cementitious Waterproofing & Water Resistive Barrier (WRB) 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 • Vapour Barrier 18ng/pa.s.m² (0.3 perms)

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 -20 m ² /unit (130-215 ft ² /unit)		
PERFORMANCE PROPERTIES		METHOD	RESULT
Tensile Strength	ASTM C190	0.35 MPa without mesh 16.55 MPa with mesh	
Elongation		24%	
Flexural Strength	ASTM C293	6.23 MPa	
Air Leakage	ASTM E283	0.0105 L/s.m ² @ 75 Pa	
Water Vapour Permeance	ASTM E96 Method A ASTM E96 Method B	18 ng/Pa.s.m ² (0.3 Perms) 91 ng/Pa.s.m ² (1.6 Perms)	
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 B117	Passed (300 hours)	
Accelerated Weathering	ASTM D822	Passed (2000 hours)	
Freeze/Thaw Resistance	CCMC method	Passed (10 cycles)	
Adhesion (axial pull)	ASTM D1623	Cement Board	Concrete Glass Mat Gypsum
		Dry State	Pass Pass Pass
		2h- dry	Pass Pass Pass
		7 d- dry	Pass Pass Pass

Packaging	A unit consists of a 10 liter jug of latex acrylic polymer and 1 bag (25 kg) of powder.
Storage	Store Durex® EctoFlex components at temperatures above 0°C. KEEP MATERIALS FROM FREEZING. DISCARD ALL FROZEN MATERIALS.
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.
Limitations	Durex® EctoFlex is not recommended for use: <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
Clean-up	Clean all tools promptly after each use with clean water. Do not allow mixes to dry on tools.
Health and Safety	For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent SDS sheet containing physical, environmental, toxic and other safety/materials handling data. For industrial use only. Keep out of reach of children.
Warranty	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.
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 Durabond Products Ltd. sales representative.

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