

Acrylic Elastomeric High Build Protective & Decorative Coating

Description	Durex® EMC is a 100% acrylic-based elastomeric high build protective waterproof wall coating. Its unique formulation permits bridging of minor cracks which can normally appear in walls. A breathable coating, the Durex® EMC provides an effective weather shield for wall surfaces.
Uses	<p>Durex® EMC can be applied over any solid wall substrate including but not limited to the following:</p> <ul style="list-style-type: none"> • Clean concrete and masonry and all other types of cementitious surfaces • Ideal for both exterior and interior surfaces • Ideal for coating stone, precast, exposed aggregate surfaces • Ideal for recoating existing stucco surfaces with minor cracks, cement plaster and EIFS • Suitable for recoating previously painted surfaces
Features	<ul style="list-style-type: none"> • High flexibility; up to 300% elongation with 100% recovery • Retains flexibility at low temperatures to -40°C • Low dirt pick-up (wall remains cleaner even in high pollution areas) • Easy to apply • Excellent adhesion to cementitious substrates • Permeable; allows wall to breathe and trapped water vapour in wall to evaporate • Long-term weatherability • Excellent resistance to ultraviolet rays • Permanently bridges existing minor cracks

TECHNICAL DATA

PHYSICAL PROPERTIES	
Product Type	Acrylic-based elastomeric coating
Density	1.20 – 1.34 Kg/ltr
Viscosity	3500-4500 cps – ASTM D2196 127 – 135 KU – ASTM D562
ph Level	9.0 to 9.5
Toxicity	Non-toxic
Minimum Film-Forming Temperature	5°C
Shelf Life	3 years
Coverage	4.9 m ² /L (200 ft ² / gallon) @ 10 mils WFT (5 mils DFT) 46.5 m ² / pail (500 ft ² /pail) @ 2 coats (10 mils DFT) Coverage rate will vary according to the porosity and roughness of the surface being coated. Very rough or porous surfaces may require more than 2 coats to provide the required minimum 10 mils dry film thickness.

	METHOD	RESULT
Film Thickness		10 mils 2 coats (dry)
Water Vapour Permeance	ASTM E96	858.2 ng/Pa.s.m ² (15 US Perms) @ 25°C
Flexibility	ASTM D322	180° over 1/8" rod at -20°C no cracking
Curing Time		2 hours tack free (at 20°C); 48 hours full cure (at 20°C)
Adhesion	ASTM D4541	1.53 MPa (221 psi)
Ultimate Tensile Strength	ASTM D412	203 psi @ 25°C; 710 psi @ 0°C
Elongation at Break	ASTM D412	355% @ 25°C; 130% @ 0°C
Dirt Pick-Up Resistance	ASTM D3719	Excellent
Recovery After 24 hrs	ASTM D412	100%
Salt Spray Resistance	ASTM B117	Pass 300 hrs
Reduction of Chloride Penetration	ASTM C1202	98%
Elongation %	ASTM D412	350%
Accelerated Weathering	ASTM G155	Pass 5000 hrs.
Freeze / Thaw resistance	ASTM C67	Pass 50 cycles
Mildew Resistance	ASTM D3273	No Growth
Colour Uniformity	ASTM D1729	Pass 5000 hrs

Packaging	Durex® EMC is packaged in 25 kg pails. Durex® EMC is available in multitude of standard colours and Custom colour matching is available upon request.
Storage	Store Durex® EMC in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F). Keep materials dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight. KEEP FROM FREEZING.
Application	<p>Substrate must be dry, solid, clean, and free of weak and powdery surfaces, dust, dirt, oil, grease and other deleterious contaminants detrimental to a positive bond. (Check with Durabond Products Limited for questionable substrates). Clean substrate surfaces by sandblasting or high-pressure water blasting. Remove any blisters or delaminated of existing coatings and sand edges to smooth rough areas and provide transition to previously painted areas. Apply a coat of Durex® Dur-X-Cel Primer on all new concrete surfaces and chalky, mineral and/or weak concrete surfaces. Thoroughly stir Durex® EMC within its own pail before each use. Discard all frozen materials, materials which have formed solid lumps at the bottom of the container and materials which do not appear to be of a homogeneous viscosity.</p> <p>ROLLER</p> <p>Using a 19mm to 30mm (3/4" – 1 1/4") high pile roller, completely saturate the roller and keep it loaded with the coating to building the required thickness. Apply the coating with several passes, evenly spreading the coating over the entire substrate surface. Never dry roll. Cross roll, maintaining a wet edge, to achieve uniform thickness. Back roll in one direction for consistent appearance. Ensure that the final stroke of the roller is always in the same direction and with the same pressure applied to the roller.</p> <p>SPRAY</p> <p>Equipment is available for spraying all grades of Durex® EMC. It is necessary to use a heavy duty sprayer designed for the application of coatings that contain sand particles. Contact equipment manufacturer for further recommendations. For smooth and fine grades, back rolling in one direction after spray application is recommended to achieve uniform texture and film thickness.</p> <p>BRUSH</p> <p>Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups. Use only a nylon brush.</p> <p>Carefully organize the work with sufficient available tradesmen in order to complete an entire section from natural break point to natural break point. AVOID STOP AND START LINES WITHIN ANY ONE SECTION. Apply Durex® EMC in a minimum number of 2 coats, each coat to a minimum of 0.25 mm (10 mils) wet film thickness. The final total dry film thickness shall be a minimum of 0.25 mm (10 mils).</p> <p>Conduct adhesion tests of cured coating according to ASTM D 3359, Measuring Adhesion by Tape Test Method A to verify positive adhesion to substrate.</p> <p>DO NOT SUBSTITUTE NOR COMPENSATE DUREX® EMC WITH WATER OR OTHER ADDITIVES.</p>
Limitations	<p>Durex® EMC 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 period • Over surfaces previously coated with an oil-based paint or high-gloss paint without the use of a primer
Curing/Drying Time	Allow each coat to be tack free prior to applying succeeding coat. Apply a maximum of 2 coats within a 24-hour period. Protect freshly applied coating from inclement weather until coating has fully set and cured.
Clean-up	Clean all tools promptly after each use with clean water. Do not allow the product to dry on tools. Durex® Cleaning Solution CS-100 is available to aid cleaning of soiled areas where the Durex® EMC has dried.
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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