

Durex® Diamond Flex

High Impact Polymer-based Cementitious Flexible Base Coat

Description	Durex® Diamond Flex is a single-component polymer-based cementitious base coat developed to utilizing polymer technology to combine strength and toughness of polymer-modified cement with the flexibility of synthetics. Durex® Diamond Flex is the second coat of base coat in the Durex® Point Guard woodpecker resistant EIFS lamina system. Durex® Diamond Flex is white when fully cured.
Uses	Durex® Diamond Flex is applied over fully cured Durex® Diamond Plus to create a flexible surface ready to receive architectural finish coat. It provides the woodpecker resistance in the Durex® Point Guard woodpecker resistant EIFS lamina system when combined with Durex® Diamond Coat. Can also be used in repair / retrofit application over previously installed EIFS coatings in combination with Durex® Diamond Coat.
Features	<p>Durex® Diamond Flex has been formulated to provide a highly flexible, crack resistant cement-based coating. Durex® Diamond Flex provides the following features:</p> <ul style="list-style-type: none"> • Excellent adhesion to cementitious substrates, including Diamond Coat Plus • Combined strength of cement and the flexibility of synthetics • High flexibility allows for large surface areas to be coated without the need of unwanted control joints • Easy to use; just mix with water • Provides flexibility as a second base coat layer to the Durex® Point Guard lamina system for EIFS

TECHNICAL DATA

PHYSICAL PROPERTIES		
Product Type	Polymer-based cementitious coating	
Appearance	White cementitious powder	
Toxicity	CAS-Registry No. 65997-15-1 (contains Portland Cement)	
Coverage	Each pail/bag will provide approximately 9-11 m ² (100 -130 ft ²)	

PERFORMANCE PROPERTIES	METHOD	RESULT
Tensile Strength	ASTM C190	0.35 MPa (50 psi) without mesh 16.55 MPa (2400 psi) with mesh
Elongation		9.4%
Flexural Strength	ASTM C293	8.28 MPa (1200 psi)
Air Leakage	ASTM E283	0.0022 L/s.m ² @ 75 Pa
Water Vapour Permeance	ASTM E96	149 ng/Pa.s.m ² @ 25°C
Fire Rating	CAN/ULC S114	Rated non-combustible
Impermeability to Water	CCMC 6.7	Pass
Coefficient of Water Absorption	CCMC 5.5.1	0.0007 Kg (m ² .s ^{1/2})
Salt Spray Resistance	ASTM B117	Passed (300 hrs)
Accelerated Weathering	ASTM D822	Passed (2000 hrs)

Packaging	Durex® Diamond Flex is available in 22.7 Kg (50 lb) bags.
Storage	Store Durex® Diamond Top Coat 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.
Mixing Procedure	<p>Thoroughly mix Durex® Diamond Flex 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. Mix Durex® Diamond Flex with clean potable water in accordance with the following proportions:</p> <ul style="list-style-type: none"> • Water 5 litres • Durex® Diamond Flex 1 bag <p>Pour clean potable water into an empty clean mixing container. While under slow mixing action add the Durex® Diamond Flex in the required mixing proportions. Mix well until the mixture is free of lumps. Do not overmix or use excessive mixing speed. Let mixed material stand for approximately 15 minutes. Mix only enough materials which can be used within 1 hour. Working time may vary slightly depending on</p>

temperature and relative humidity. Re-temper and use. Discard all materials which have begun to stiffen for a second time. **DO NOT SUBSTITUTE NOR COMPENSATE DUREX® DIAMOND FLEX WITH OTHER ADDITIVES.**

Application	Apply Durex® Diamond Flex to fully cured Diamond Coat, at a thickness of 1.5 – 2mm (1/16”) with a metal trowel.
Limitations	<ul style="list-style-type: none">• Mix Durex® Diamond Flex only with clean, potable water• Ambient, surface and material temperatures must be above 5°C (41°F) during application and curing• Do not apply the mix in layers thicker than 3.2 mm (1/8”) in any one pass
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, and 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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