

# Durex Flexcrete

## Flexible Polymer-Based Cementitious Base Coat & Water-Resistive Air Barrier

- Description** Durex® Flexcrete is a two-component polymer-based coating consisting of Flexcrete, a water-based acrylic, and Flexcrete ‘B,’ a cementitious-based dry blend. The Durex® Flexcrete mix has been developed to utilize advanced polymer technology to combine the strength and toughness of polymer-modified cement with the flexibility of synthetic polymers.
- Use** Durex® Flexcrete coating is intended be used as the base coat in Durex® Stucco Lite Soffit, Durex® Flexlite and Durex® Quantum system applications. This product is suitable for use as a joint treatment and base coat for cement board and glass-mat faced gypsum substrates. Durex® Flexcrete may also be used as the insulation adhesive for all Durex® EIFS Systems. In addition, Durex® Flexcrete functions as a water-resistive (WRB) air barrier.
- Features** Durex® Flexcrete has been formulated to provide a highly flexible cement-based coating which is crack resistant. It can be bent over a 6.4 mm (1/4”) mandrel without cracking. Durex® Flexcrete provides the following features:
- Superior adhesion to various inorganic substrates
  - Combines the strength of cement and the flexibility of synthetics
  - Designed to allow minor movements in the substrate without causing cracking in the base coat
  - High flexibility that allows for large surface areas to be coated without the need of unwanted control joints
  - Easy to mix and use

### TECHNICAL DATA

PHYSICAL PROPERTIES	
Product Type	Water-based acrylic, cementitious-based mixture
Appearance	White semi-solid ready-mixed paste
Viscosity	Pourable paste
pH Level	9.0 to 9.5
Toxicity	Non-toxic
Coverage	Each pail/bag will provide approximately 10-12 m <sup>2</sup> (107-130ft <sup>2</sup> )

PERFORMANCE PROPERTIES	METHOD	RESULT																
Tensile Strength	ASTM C190	0.35 MPa (50 psi) without mesh 16.55 MPa (2400 psi) with mesh																
Elongation	ASTM D412	9.4%																
Flexural Strength	ASTM C293	8.28M MPa (1200 psi)																
Air Leakage	ASTM E283	0.0022 L/s.m <sup>2</sup> (0.004 cfm/ft <sup>2</sup> ) @ 75 Pa																
Water Vapour Permeance	ASTM E96 Method A	400 ng/Pa.s.m <sup>2</sup> (7.0 Perms)																
	ASTM E96 Method B	972 ng/Pa.s.m <sup>2</sup> (17 Perms)																
Impermeability to Water	CCMC 6.7	385.56 ng/Pa.s.m <sup>2</sup> (6.74 perms) @ 25°C (77°F)																
Coefficient of Water Absorption	CCMC 5.5.1	0.0007 Kg (m <sup>2</sup> .s <sup>1/2</sup> )																
Salt Spray Resistance	ASTM B-117	Passed (300 hours)																
Accelerated Weathering	ASTM D-822	Passed (2000 hours)																
Freeze/Thaw Resistance	CCMC TG 07 24 13.01	Passed (10 cycles)																
Adhesion (axial pull)	ASTM D1623	<table border="1"> <thead> <tr> <th></th> <th>Cement Board</th> <th>Concrete</th> <th>Glass Mat Gypsum</th> </tr> </thead> <tbody> <tr> <td>Dry State</td> <td>Pass</td> <td>Pass</td> <td>Pass</td> </tr> <tr> <td>2h- dry</td> <td>Pass</td> <td>Pass</td> <td>Pass</td> </tr> <tr> <td>7 d- dry</td> <td>Pass</td> <td>Pass</td> <td>Pass</td> </tr> </tbody> </table>		Cement Board	Concrete	Glass Mat Gypsum	Dry State	Pass	Pass	Pass	2h- dry	Pass	Pass	Pass	7 d- dry	Pass	Pass	Pass
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**Packaging** Durex® Flexcrete is available in 18.9 litre (4.5 gal) pails. Durex® Flexcrete ‘B’ is available in 22.7 Kg (50 lb) bags.

**Storage** Store Durex® Flexcrete 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. DISCARD ALL FROZEN MATERIALS.**

**Mixing Procedure** Thoroughly mix Durex® Flexcrete 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® Flexcrete with Durex® Flexcrete 'B' in accordance with the following proportions:

Durex® Flexcrete 'B' 1 - 22.7kg bag  
Durex® Flexcrete 1 - 18.9L pail

Pour the Durex® Flexcrete into an empty clean mixing container. While under mixing action add the Durex® Flexcrete 'B' in the required mixing proportions. Mix well until the mixture is free of lumps. Do not overmix or use excessive mixing speed. Discard all materials which have begun to harden. Let mixed material stand for a few minutes to begin initial stiffening. Mix only enough materials which can be used within 45 minutes. Re-temper and use. Discard all materials which have begun to stiffen for a second time. Durex® Flexcrete may also be mixed with Type 10 Portland Cement using the same proportions detailed above. **DO NOT SUBSTITUTE NOR COMPENSATE DUREX® FLEXCRETE WITH WATER OR OTHER ADDITIVES.**

**Application** Refer to the selected Durex® Wall System for the application of the Durex® Flexcrete.

**Limitations**

- Ambient, surface and material temperatures must be above 5°C (41°F) during application and curing period
- 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, 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](mailto:info@durabond.com). For the latest version of this data sheet, please visit our website at [www.durabond.com](http://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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