Durex® Flexcrete

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

Description

Durex® Flexcrete is a two component polymer based mortar consisting of a water based acrylic liquid component Durex® Flexcrete, mixed with the dry component Durex® Flexcrete "B". 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 synthetics.

Uses

Durex® Flexcrete mix can be used as the base coat in "Durex® Pool Coat", " Durex® Stucco Lite Soffit", "Durex® Flexlite" and " Durex® Quantum" system applications. This product is the most suitable cementitious joint treatment and base coat available for cement board and glass-mat coated gypsum substrates. Durex® Flexcrete may also be used as the insulation adhesive for all Durex® EIF Systems. In addition, Durex® Flexcrete functions as a water resistive (WRB) air barrier when applied at minimum thickness of 1.5 mm (1/16").

Advantages

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 up to 1.6 mm (1/16") in the substrate without causing cracking in the base coat.
- Allows for large surface areas to be coated without the need of unwanted control joints.
- Easy to mix and use
- Excellent job site quality control

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.

TECHNICAL DATA

PHYSICAL PROPERTIES

Product type	Water based acrylic, sand-filled 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 9 m^2 (100ft^2) when applied at a thickness of 3.2 mm (1/8")

	METHOD	RESULT
Tensile strength	ASTM C190-85 ASTM C190-85	0.35 MPa (50 psi) without mesh 16.55 MPa (2400 psi) with mesh
Elongation		9.4%
Flexural strength	ASTM C293-70	8.28M MPa (1200 psi)
Air Leakage	ASTM E283-91	0.0174 L/s.m^2 (0.35 cfm/ft^2) @ 1.5 mm (0.06 in) thick 0.0022 L/s.m^2 (0.004 cfm/ft^2) @ 3.0 mm (0.12 in) thick Class 3 air barrier
Water Vapour Permeance	ASTM E-96-95	385.56 ng/Pa.s.m^2 (6.74 perms) @ 25°C (77°F)
Impermeability to Water	CCMC 6.7	385.56 ng/Pa.s.m^2 (6.74 perms) @ 25°C (77°F)
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)
Accelerated weathering	ASTM D-822	Passed (2000 hours)
Freeze/Thaw Resistance	CCMC Method	Passed (10 cycles)

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 formula:

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 slow 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.

Clean up Clean all tools promptly after each use with clean water. Do not allow mixes to dry on tools.

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.**

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.

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.

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