

Durex® Flexcrete WG (Winter Grade)

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

Description Durex® Flexcrete WG is a two component polymer based mortar consisting of a water based acrylic liquid component Durex® Flexcrete WG, mixed with the dry component Durex® Flexcrete “B”. The Durex® Flexcrete WG mix has been specially developed for applications during colder weather and be fully cured at temperatures as low as 0°C.

Uses Durex® Flexcrete WG mix can be used as the base coat in “ 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 WG may also be used as the insulation adhesive for all Durex® EIF Systems. In addition, Durex® Flexcrete WG functions as a water resistive (WRB) air barrier when applied at minimum thickness of 1.5 mm (1/16”).

Advantages Durex® Flexcrete WG has been formulated to obtain full cure at temperatures as low as 0°C, an ideal advantage during late fall / early winter and spring periods when temperatures during the night can drop. Durex® Flexcrete WG provides the following features:

- Low temperature curing
- 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.
- Excellent job site quality control

Limitations

- Ambient, surface and material temperatures must be above 0°C (32°F) during application and curing period
- Do not apply the mix in layers thicker than 3.2 mm (1/8”) in any one pass
- Durex Flexcrete WG has been specially formulated to ensure full cure at lower temperatures, however it is recommended that for best results the product be kept from freezing during application and the curing period.

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 14.5 m ² (156ft ²) when applied at a thickness of 2 mm (1/16”)

	METHOD	RESULT
Tensile strength	ASTM C190-85	0.35 MPa (50 psi) without mesh
	ASTM C190-85	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) @ 1.5.5 mm (0.06 in) thick
		0.0022 L/s.m ² (0.004 cfm/ft ²) @ 3.0.5 mm (0.12 in) thick
		@ 75 Pa (0.3 in w.g.) pressure difference
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

Mixing Procedure Thoroughly mix Durex® Flexcrete WG 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 WG with Durex® Flexcrete “B” in

accordance with the following formula:

- Durex® Flexcrete “B” 1 - 22.7kg bag
- Durex® Flexcrete WG 1 - 18.9L pail

Pour the Durex® Flexcrete WG 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 WG may also be mixed with Type 10 Portland Cement using the same proportions detailed above. **DO NOT SUBSTITUTE NOR COMPENSATE DUREX FLEXCRETE WG WITH WATER OR OTHER ADDITIVES.**

Application	Refer to the selected Durex® Wall System for the application of the Durex® Flexcrete WG.
Clean up	Clean all tools promptly after each use with clean water. Do not allow mixes to dry on tools.
Storage	Store Durex® Flexcrete WG in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 0°C (32°F). Keep materials dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight.
Packaging	Durex® Flexcrete WG 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.

DURabond

HEAD OFFICE
55 Underwriters Road
Scarborough, ON M1R 3B4
T 416.759.4474 F 416.759.4470

MISSISSAUGA
6178 Netherhart Road
Mississauga, ON L5T 1B7
T 905.565.9283 F 905.565.9365

EDMONTON
14345 120th Avenue
Edmonton, AB T5L 2R8
T 780.451.6364 F 780.453.9056

INFO@DURABOND.COM

WWW.DURABOND.COM

1.877.DURABOND (387.2266)

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