

Durex[®] VCA 3.0 Insulation Adhesive

Polymer Based Cementitious Insulation Adhesive

PRODUCT DESCRIPTION:

DUREX VCA 3.0 INSULATION ADHESIVE is a two-component polymer based cementitious insulation adhesive used with most **Durex Moisture Managed EIF Systems**. A water based acrylic liquid component is mixed with a specially formulated dry cementitious powder containing coarse sand aggregates to create a cavity between the insulation board and the substrate.

USES:

DUREX VCA 3.0 INSULATION ADHESIVE is specially suited for adhering expanded polystyrene insulation (EPS) and extruded polystyrene insulation (XPS) to a variety of surfaces such as concrete, brick, concrete block, cement board, glass fibre faced gypsum sheathings, gypsum board, plywood and a few others.

ADVANTAGES:

- Superior adhesion to various inorganic substrates
- Combines flexibility of synthetics and the strength of cement

- Coarse aggregate creates cavity between the insulation board and the substrate to allow for drainage of incidental moisture
- Superior adhesion to cured **Durex Green Guard, Blueshield, Flexcrete and Mastic 100**.
- Allows for excellent quality control on job site

DISADVANTAGES:

- Ambient surface and material temperatures must be above 50C (410°F) during application and curing period
- Must be used only to adhere expanded polystyrene insulation (EPS) and extruded polystyrene insulation (XPS)
- Must always be applied in vertical channels to facilitate positive drainage.

MIXING PROCEDURE:

DO NOT SUBSTITUTE NOR COMPENSATE THE **DUREX VCA 3.0 INSULATION ADHESIVE LIQUID** WITH WATER OR OTHER ADDITIVES.

Thoroughly mix **DUREX VCA 3.0 INSULATION ADHESIVE** Liquid before each use. Discard all

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

Performance Characteristics:

Test	Method	Results
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	8.28 MPa (1200 psi)
Air Leakage:	ASTM E283-91	0.0174 L/s·m ² @ 1.5 mm thick
		0.0022 L/s·m ² @ 3.0 mm thick Class 3 air barrier
Water Vapour Permeance:	ASTM E96-95	385.56 ng/Pa·s·m ² @ 25°C

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Manufacturers and Distributors of High Quality Construction Products

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DUREX VCA INSULATION ADHESIVE
POLYMER BASED CEMENTITIOUS ADHESIVE

materials which have formed lumps at the bottom of the mixing 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 1 pail of **DUREX VCA 3.0 INSULATION ADHESIVE Liquid** with one bag **DUREX VCA 3.0 INSULATION ADHESIVE Powder**.

Pour **DUREX VCA 3.0 INSULATION ADHESIVE Liquid** into an empty clean mixing container. While under slow mixing action add the **DUREX VCA 3.0 INSULATION ADHESIVE Powder** in the required mixing proportions. Mix well until the mixture is free of lumps. Do not over-mix nor use excessive mixing speed. Let mixed material stand for a few minutes until it begins 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.

APPLICATION:

Using a 12.7mm (1/2") dispersion trowel apply the adhesive to the insulation boards to form vertical ribbons. Use sufficient pressure such that the board's surface is visible between the ribbons.

Immediately after applying the insulation adhesive, before initial set begins, firmly press the insulation board into place. Begin installation at one end, from a baseline, to form an uninterrupted surface.

Install the insulation boards to the substrate in running bond pattern and with joints offset with respect to joints in the substrate by a minimum of 150 mm (6") and with the pre-machined vertical channels in alignment. Interlock board joints at all corners.

CLEAN-UP:

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

PACKAGING:

Store **DUREX VCA 3.0 INSULATION ADHESIVE Liquid & Powder** in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 50°C (410°F). Keep materials dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight. KEEP FROM FREEZING.

PACKAGING:

DUREX VCA 3.0 INSULATION ADHESIVE Liquid is available in 18.9 litre pails. **DUREX VCA 3.0 INSULATION ADHESIVE Powder** is available in 22.7 kg bags.

COVERAGE:

Each unit of **DUREX VCA 3.0 INSULATION ADHESIVE** provides approximately 11-13 m² (120-140 ft²) coverage.

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 assistance for unique applications and design is available upon request from **Durabond Products Limited**.

DURabond

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