TECHNICAL DATA SHEET

Durex® VCA 3.0 Insulation Adhesive

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Polymer-based Cementitious Insulation Adhesive

Description

Durex® VCA 3.0 Insulation Adhesive is a two-component polymer base 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 especially 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 the 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, Blue Shield, Flexcrete and Dur-A-Mastic 100.
- . Allow for excellent quality control on job site

Limitations

PHYSICAL PROPERTIES

- · Ambient, surface and material temperatures must be above 5°C (41°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

TECHNICAL DATA

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 unit of Durex® VCA 3.0 Insulation Adhesive will provide approximately 11-13 m² (120-140 ft²) coverage

	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	8.28 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

Mixing **Procedure**

Thoroughly mix Durex® VCA 3.0 Insulation Adhesive Liquid 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 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 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 a few minutes until it begins initial stiffening. Mix only enough materials which can be used within 45 minutes. Retemper and use. Discard all materials which have begun to stiffen for a second time. DO NOT SUBSTITUTE NOR COMPENSATE DUREX® VCA 3.0 INSULATION ADHESIVE LIQUID WITH WATER OR OTHER ADDITIVES.

Application

Using a 12.7 mm (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 board 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 premachined 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.

Storage Store Durex® VCA 3.0 Insulation Adhesive Liquid & Powder 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® 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.

Health For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent and Safety 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 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.

