

BACKSTOP™ NT - VB

DSC829

A high performance, non-cementitious water-resistive membrane and air/vapour barrier

Description

Backstop NT - VB is a flexible, polymer-based, non-cementitious, water-resistive barrier, that when properly installed prevents water penetration, eliminates air infiltration and retards vapour diffusion.

Uses

This data sheet provides information on Backstop NT-VB when being used in conjunction with Dryvit EIF systems.

Backstop NT-VB used with AquaFlash and AquaFlash Mesh, provides an effective water-resistive protective membrane for exterior rated sheathings and other approved substrates. (See Approved Substrates.)

Benefits

Backstop NT - VB is used straight out of the pail and can be applied by trowel, or spray and back-rolled. The coating dries quickly and serves as an excellent substrate for adhesively attaching EPS.

Coverage

Coverage may vary slightly, depending on application method and substrate.

Backstop NT-VB shall be applied in two coats at a maximum combined rate of 180-190 sf/pail. Each coat shall be applied at a maximum rate of 35 m² (380 sf) /pail yielding a total maximum combined coverage of 16-17 m² (180-190 sf) /pail, translating to a overall dry mil thickness of 24mils.

Please refer to chart included in this document.

Properties

Working Time - Backstop NT – VB is a non-cementitious material and therefore will not set-up in the bucket.

Drying Time – The drying time of Backstop NT - VB is dependent upon the air temperature, wind

conditions and relative humidity. Under average drying conditions [21 °C (70 °F), 55% R.H.], Backstop NT - VB will be dry to the touch within 3 hours and cured in 12 hours.

Performance Requirements

Backstop NT - VB shall meet the following performance criteria:

Water Vapour Transmission:

(ASTM E 96 Procedure-A)
5 ng/Pa.s.m² (<0.1 perms)

Flexibility: (ASTM D 522) No cracking at 2 mm diameter.

Tensile Bond: (ASTM C 297) – Substrates: Minimum 131 kPa (19 psi).

Flashing: Minimum 2970 kPa (431 psi).

Tensile Strength:
(ASTM D 2370) 160 psi.

Elongation: (ASTM D 2370) – 16.8%.

Wind Driven Rain:
(FS TT-C-555B) - No moisture penetration.

Air Permeance
(ASTM E 283) - 0.0006 l/s/m² @ 75Pa (1.2x10⁻⁴ cfm/ft² @ 1.6 psf)

Air Barrier Assembly
(ASTM E 2357) - 0.05 l/sec m² @300 Pa (<0.001 cfm/ft² @ 6.24 psf)

Moisture Resistance:
(ASTM D 2247) - No deleterious effects.

Flame Spread/Smoke Development: (ASTM E 84) - Flame Spread 5, Smoke Development 20.

For a complete list of performance requirements and results, refer to Backstop NT-VB Specifications DSC830.

Application Procedure

FOR COMPLETE INSTALLATION INSTRUCTIONS, REFER TO BACKSTOP NT – VB APPLICATION INSTRUCTIONS, DSC831.

Job Conditions – Air and surface temperature for application of Backstop NT - VB must be 4 °C (40 °F) or higher and must remain so for a minimum of 12 hours.

Temporary Protection – Shall be provided at all times until membrane, adhesive, base coat, finish and permanent flashings, sealants, etc. are completed to protect the wall from weather and other damage.

Approved Substrates:

- DensGlass Gold®
- Exterior cement and calcium silicate sheathing
Exterior Fibre Faced Gypsum Sheathing meeting ASTM C 1177
- Unpainted CMU or concrete
- For other substrates, please contact Dryvit Systems Canada

Surface Preparation – The sheathing board gaps shall not exceed 6.4 mm (1/4 in) and the surface must be flat within 6.4 mm (1/4 in) in any 1.2 m (4 ft) radius. CMU mortar joints shall be struck flush. Concrete and CMU shall be clean, unpainted and free of efflorescence. Tooled mortar joints and heavily textured CMU, **not split faced**, shall be “skim coated” with Genesis™ or Genesis™ DM prior to application of Backstop NT - VB. All substrates shall be dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion.

Mixing – Backstop NT – VB is ready for use after an initial spin-up using drill with paddle mixer. **DO NOT ADD CEMENT.**

Membrane Application

Depending on the substrate, Backstop NT - VB may be applied using spray equipment and back-rollered, or a trowel. Follow Dryvit Installation Instructions, DSC831 for specific requirements.

Please refer to the following table general information on coverage.

Clean Up – Clean tools with water while Backstop NT – VB mixture is still wet.

Limitations - Apply Backstop NT - VB to approved substrates only. Application over wood sheathings with preservative treatments is not recommended. Shall be covered with EPS within 30 days under heated conditions. Sheathing meant to be left

exposed over any period during winter months should not be coated. Joints may be treated with AquaFlash System in such a scenario.

Storage

Backstop NT - VB must be stored at 4 °C (40 °F) or above in tightly sealed containers out of direct sunlight.

Technical and Field Service

Available on request.

Backstop NT – VB Usage/Application Chart				
Substrate	Location	Product	Tool	Approximate Coverage Per Pail ^c
DensGlass Gold®	Joints ^a	Backstop NT - VB	Trowel	91 m (300 lin. ft.)
	Face	Backstop NT – VB	Trowel	16-17 m ² (180-190 ft ²)
Exterior Cement Board	Joints ^a	Backstop NT - VB	Trowel	91 m (300 lin. ft.)
	Face	Backstop NT – VB	Trowel	16-17 m ² (180-190 ft ²)
Concrete and Masonry ^b	Face	Backstop NT - VB	Trowel	15 m ² (160 ft ²) ^h

^a Tape the joints with Dryvit Grid Tape or AquaFlash Mesh prior to application of Backstop NT – VB at joints.
^b Apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the dried BSNT – VB, particularly at the mortar joints, the job should be parged with Genesis, 24 hours prior to BSNT – VB application
^c Coverage may vary depending on the porosity of the masonry substrate. Coverage based on smooth dense block surface.