

**Backstop™ NT - VB
Application Instructions
for use behind Dryvit® EIFS**

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

CHECKLIST PRIOR TO THE INSTALLATION OF BACKSTOP NT – VB

Project Conditions

- Maximum storage temperature shall not exceed 38 °C (100 °F). Minimum storage temperature shall not be less than 4 °C (40 °F).
- Air and surface temperatures for application of Backstop NT – VB must be 4 °C (40 °F) or above and must remain so for a minimum of 12 hours thereafter.
- Ensure that all roof-to-wall flashings, wall to deck flashings, run-off diverters (i.e. kick-outs), or other penetration flashings, are installed where required to direct water to the exterior of the building envelope. Particular attention must be paid to the eaves/chimney intersections, sloped roof/wall intersections, decks and windows.
- Protect materials from inclement weather until they are completely dry.
- Protect surrounding areas and surfaces during installation of the Backstop NT - VB.
- Backstop NT - VB should not be left exposed to weather and UV more than 30 days, prior to being covered with one of Dryvit's Exterior Insulation and Finish Systems.

MATERIALS REQUIRED FOR INSTALLING DRYVIT'S BACKSTOP NT - VB

Materials Supplied by Dryvit System Canada

Dryvit Backstop™ NT - VB
Dryvit AquaFlash® Liquid and AquaFlash® Mesh
Dryvit Grid Tape™ or AquaFlash® Mesh (Required for sheathing joint treatment)
Dryvit Detail Mesh (for rough opening and corner preparation)
Dryvit Flashing Tape™ (if specified)
Dryvit Flashing Tape Surface Conditioner™ (if specified)

TOOLS REQUIRED FOR THE INSTALLATION OF DRYVIT'S BACKSTOP NT - VB

- A. Stainless steel spatula or trowel
- B. Utility knife
- C. Tape measure
- D. Hawk
- E. Appropriate spray equipment and roller (if spray applying material)

I. Mixing

- A. Open the pail with a utility knife or lid removal tool.
- B. Due to shipping and storage, there may be some settling of materials. Prior to using, mix the material to a smooth homogeneous consistency using a Wind-lock B-M1 or B-M8, or equivalent, mixing blade powered by a 12.7 mm (1/2 in) drill, at 400-500 rpm. **CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance compromise. Never add water.**
- C. Do not dilute the product or add any foreign materials to the Backstop NT - VB product.

II. Substrate Check

- A. Ensure that the substrate is of a type approved in the Backstop NT - VB Specification DSC830.
- B. Ensure that ambient and surface temperatures are minimum 4 °C (40 °F) and rising at the time of Backstop NT application.
- C. Ensure that the substrate is dry.
- D. Ensure that the substrate is flat within 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.

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- E. Ensure that sheathing gaps do not exceed 6.4 mm (1/4 in). Larger gaps must be corrected by replacing the sheathing material.
- F. Notify the General Contractor and/or Architect and/or Owner of all discrepancies. Do not proceed with work until discrepancies have been corrected.

III. Surface Preparation

- A. The substrate shall be free of foreign materials such as oil, dust, dirt, paint, efflorescence, wax, water repellents, moisture, frost and any other surface contaminants that may inhibit adhesion.

IV. Backstop NT - VB Application

- A. Ensure that the wall surface and ambient temperature are above 4 °C (40 °F) and rising at the time of Backstop NT application. **WARNING: Do not apply the Dryvit materials in the rain. The underlying wall materials and substrate surface must be dry prior to applying the water-resistive barrier.**
- B. Sheathing Substrates:
 - 1. Prior to applying the Backstop NT - VB over a sheathing substrate, check to ensure that:
 - a. The sheathing is of a type listed in the Backstop NT - VB Specification, DSC830.
 - b. The sheathing is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Backstop NT material.
 - c. The sheathing is clean, dry and free of grease, oil, paint and other foreign material.
 - d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius. **SHEATHING WITH GAPS OR DAMAGE EXCEEDING 6.4 MM (1/4 IN) IN ANY ONE DIRECTION MUST BE REPLACED. NOTE: Notify the general contractor and/or architect and/or owner of all discrepancies. Do not proceed until all unsatisfactory conditions have been corrected.**
- C. Concrete or Masonry Substrate.
 - 1. **Prior to applying the Backstop NT - VB over a concrete or masonry substrate, check to ensure that:**
 - a. All cracks are repaired using appropriate procedures and materials.
 - b. The substrate is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Backstop NT - VB material.
 - c. The substrate is clean, dry, free of grease, oil, paint, form release agents, efflorescence and other foreign materials that may inhibit adhesion.
 - d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius.
 - 1) Mortar joints that are NOT struck flush or heavily textured masonry units shall be skim coated with Dryvit Genesis™ prior to the application of Backstop NT - VB.
 - a) Mix Genesis in accordance with the appropriate Product Data Sheet.
 - b) With a stainless steel trowel, apply a coat of the Genesis mixture over the substrate to fill the mortar joints and surface VB to provide a uniform smooth surface for the application of the Backstop NT - VB.
 - c) Allow the skim coat to completely dry prior to applying the Backstop NT - VB

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D. Backstop NT – VB Usage Chart

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.

E. Application of Backstop NT – VB

1. Sheathing Reinforcement

- Apply the Dryvit Grid Tape along all joints in the sheathing
- Center the Dryvit Grid Tape on the sheathing joints, edges, etc. with the pressure sensitive adhesive backing in contact with the sheathing surface. Press into position with hand pressure until adhesion is achieved.
- Apply only enough Dryvit Grid Tape as can be covered with Backstop NT - VB in the same day.
- For inside corners, outside corners, and exposed edges at terminations that will not be covered with Dryvit AquaFlash or Dryvit Flashing Tape, use Dryvit Detail Mesh.
- Apply Backstop NT-VB to these areas first and embed the mesh and cover.

2. Dryvit AquaFlash Mesh (required for wood based sheathing¹)

- Using a stainless steel trowel apply Backstop NT to all sheathing joints including inside and outside corners.
- Center the 100 mm (4in) AquaFlash Mesh over sheathing joints and immediately embed into wet Backstop NT-VB material.

3. Dryvit Backstop NT - VB

- General: Backstop NT - VB can be applied using a trowel, or spray equipment over the listed substrates, as noted in the usage chart above. Backstop NT - VB shall be applied in two coats at the noted coverage rate achieving a wet film thickness of 0.3 mm (13 mils).
- Allow the first coat to dry a minimum 2 hours before applying the second coat. Cooler conditions may require greater time between coats.

4. Trowel Application

- Apply first coat over entire sheathing area, including sheathing joints at the specified application rate. The trowel should be kept at a very low angle to avoid pulling material too tight. Trowel pressure should be light and film opaque when wet.
- The first coat shall be allowed to dry prior to application of second coat, which shall be applied at the same application rate and wet mil thickness. Once dry, sheathing colours should be entirely obscured.

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5. Spay applications may be completed using procedures outlined in DSC177, however, dry film thickness for Backstop NT-VB shall be no less than 24 mils (0.6mm)
- F. Prior to proceeding with system application, check the wall to ensure that the Backstop NT - VB is continuous and spot any visible voids with additional Backstop NT - VB material.
- G. All rough openings and through wall penetrations shall be treated and protected as per Outsulation System's Installation details.
- H. For areas where the secondary barrier is required to lap onto flashing or other material, it is recommended that AquaFlash system be used to achieve the transition.
- I. Under normal conditions the wall will be ready to receive Flashing Tape (when necessary) and adhesively applied EPS insulation after a minimum 6-hour drying period. As with all products that dry by evaporation, the drying rate will depend on the environmental conditions and porosity of the substrate. Cool damp weather will require longer drying times.
- J. Also, during cool, damp weather, Dryvit Surface Conditioner™ may be necessary to promote/assist in proper membrane adhesion. Install the specified Dryvit Exterior Insulation and Finish System per published installation instructions for the specific system being used.

DISCLAIMER

Information contained in these application instructions conforms to standard detail and product recommendations for the installation of the Dryvit Backstop NT - VB product as of the date of publication of this document and is presented in good faith. Dryvit Systems Canada assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit Systems Canada.

ⁱ Consult with Dryvit before using Backstop NT – VB over wood based sheathing.