

ENVIRO-BARRIER™ VP

ENVIRO-BARRIER™ VP is a single component, fluid applied, elastomeric membrane that provides an air and water barrier when applied to above grade wall assemblies. It cures to form a resilient, monolithic, fully adhered elastomeric membrane, which resists air leakage and water penetration but allows vapor diffusion.

KEY FEATURES

- » Elastomeric membrane for above grade wall assemblies.
- » Asphalt free formulation.
- » Remains flexible over a wide temperature range.
- » Fire/Flame Characteristics: NFPA 285, ASTM E84 (Class A) criteria met in multiple assemblies. Meets 2015 IBC exceptions for water-resistive barriers.
- » Cost effective and easy spray application.
- » Excellent UV resistance.
- » Excellent adhesion to most construction materials, such as exterior gypsum board, CMU, concrete, stone, wood and metal.

INSTALLATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces to receive Hohmann & Barnard ENVIRO-BARRIER™ VP must be clean, smooth and free from projections, oil, grease and other contaminants.

Concrete:

- » New concrete should be cured for a minimum of 48 hours and shall be smooth with no sharp protrusions.
- » Honeycombing and cracks/voids up to 1/4" shall be filled with HB Sealant after application of ENVIRO-BARRIER™ VP.
- » Cracks/voids in excess of 1/4" should be sealed with X-Seal Transition Membrane over a primed substrate and lapped a minimum of 3" on both sides of the crack.

Concrete Masonry Unit (CMU):

- » All mortar joints must be struck flush and full to the face of the CMU.
- » Cracks/voids up to 1/4" shall be filled with HB Sealant after application of ENVIRO-BARRIER™ VP.
- » Cracks/voids in excess of 1/4" should be sealed with X-Seal Transition Membrane over a primed substrate and lapped a minimum of 3" on both sides of the crack.

- » Mortar droppings should be removed from brick anchors and all other surfaces.

Exterior Sheathing:

- » Sheathing boards shall be flush at joints with gaps between boards in accordance with building codes and sheathing manufacturer's instructions.
- » Sheathing boards shall be securely fastened to the structure with proper fastener type and must be installed flush with the surface. Fill all voids and holes, particularly at the mortar joints.
- » Seal all joints with X-Seal Transition Membrane over primed surface, or use HB Sealant after applying ENVIRO-BARRIER™ VP. Selection depends on the size of the gap. Refer to the chart below for recommended methods.

Joint Size	Method
Up to 1/4" Single bead	HB Liquid-Flash™ and HB Sealant
1/4 - 1/2"	X-Seal Transition Membrane with Primer SA
Over 1/2"	N/A - Unsuitable substrate

DETAILING

Dissimilar material transitions to beams, columns, window and door frames, etc. should be made with a 6" wide strip of X-Seal Membrane (over Hohmann & Barnard Primer-SA) or Hohmann & Barnard Liquid-Flash™ PRIOR to the application of ENVIRO-BARRIER™ VP. Gaps around penetrations should be sealed with HB Sealant after application of ENVIRO-BARRIER™ VP. For specific applications, please refer to Hohmann & Barnard detail sheets.

APPLICATION

- » ENVIRO-BARRIER™ VP may be applied by brush, roller or heavy-duty airless spray in a single or dual coat application.
- » Apply in continuous, monolithic application without sags, runs or voids.

- » NOTE: To reduce the possibility of blisters on porous surfaces, such as precast concrete, apply a thin primer coat and allow curing for 6 hours prior to final installation at full thickness.
- » Transition ENVIRO-BARRIER™ VP onto detail tapes to provide a continuous uniform drainage plane and barrier.
- » Regularly monitor wet mil thickness to assure adequate coverage.
- » Spray applications should be performed in both a vertical and horizontal crosshatch method to ensure a uniform coating around all projections.
- » Surface and air temperature, at time of application, must be greater than 20°F.

COVERAGE RATES

Regularly monitor wet mil thickness during application to assure adequate coverage. This can be achieved by using a wet film gauge.

Coverage rate should be ~30 square feet per gallon to achieve a 55-mil wet film thickness.

Note: Coverage rate will vary based on environmental conditions and substrate conditions.

FILM THICKNESS

- » **Wet Film Thickness (WFT) Requirement:** 55 mils
- » **Minimum Dry Film Thickness (DFT):** 30 mils

All areas that receive ENVIRO-BARRIER™ VP should be regularly inspected for uniformity of application and checked periodically using a wet film mil thickness gauge.

PACKAGING

ENVIRO-BARRIER™ VP is currently available in the following configurations:

- » 5 gallon pails
- » 55 gallon drums

TECHNICAL SERVICES

For assistance with technical services, please contact your local Hohmann & Barnard location, or contact Hohmann & Barnard directly at the contact information provided on the last page of this TDS.

LIMITATIONS

- » If the temperature drop below 40°F, the cure rate and resistance to moisture will be delayed.
- » Ensure that the applied membrane is covered to allow for proper drying in cold/wet/inclement conditions.
- » ENVIRO-BARRIER™ VP should not be applied if inclement weather is in the forecast within 24 hours of application.
- » If ENVIRO-BARRIER™ VP is to be applied with inclement weather, ensure proper precautions are in place.
- » Do not allow product to freeze while contained.
- » When using a heavy-duty airless sprayer, product should be stored and maintained at temperatures of 60°F or higher to allow for ease of application and cleaning.
- » Air temperatures/wind chills must be 20°F or higher while drying to avoid a decrease of overall performance, including cracking.

PRODUCT HANDLING AND STORAGE

- » ENVIRO-BARRIER™ VP should be stored under cover in original sealed containers in temperature controlled conditions.
- » Keep ENVIRO-BARRIER™ VP from freezing.
- » The shelf life for unopened containers is 1 year.
- » If direct contact occurs, it may result in mild irritation to skin and eyes. Be sure to flush effected areas with mild soap and water. Refer to the SDS for complete health and safety info.

PRODUCT SAFETY

All users of this product should review the latest Safety Data Sheet and the label affixed to the product for product safety information, handling instructions, personal protective equipment if necessary, and any special storage

TYPICAL PHYSICAL PROPERTIES

Typical physical properties of ENVIRO-BARRIER™ VP coating as supplied and cured are set forth in the tables below.

PROPERTY	TEST METHOD	VALUE ⁽¹⁾
Air Barrier Assembly	ASTM E2357 & ASTM E2178	Infiltration @ 75Pa - 0.0002 cfm/ft ² Exfiltration @ 75Pa - 0.0002 cfm/ft ²
Air Permeance	ASTM E2357 & ASTM E2178	<.004 cfm/ft ²
Application Temperature		20°F and rising
Color		Black
Coverage Rate		~30 sq. ft. (55 mils wet) per gallon Note: Typical coverage rates will vary, depending on substrate
Drying Time		Tack Free 4 hours Full Cure 48 hours
Elongation	ASTM D412	1,300%
Flame Spread Index	ASTM E84	Conforms with Class A specifications
Low Temp. Flexibility	ASTM C836	Pass
Peel Strength	ASTM D903	5.1 lbf/in
Percentage of Solids		55% by volume
Pull Adhesion	ASTM D4541	139 psi
Smoke Developed Index	ASTM E84	Conforms with Class A specifications
UV Resistance		Indefinite
VOC Content		202 g/L
Water Vapor Permeance	ASTM E96	>12 perms

(1) The data within the typical physical properties are not to be used as or to develop specifications.

DISCLAIMER: This product is not intended for direct consumer use. Keep out of the reach of children. All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable. The information contained in this Technical Data Sheet (TDS) is correct to the best of our knowledge, information and belief as of the date of the publication of this TDS.

The information provided in this TDS and in the Safety Data Sheet (SDS) accompanying this product are set forth as a guideline for safe handling, use, processing, storage, transportation, disposal and release of this product, and are not to be considered a warranty or quality specification. Hohmann & Barnard extends no warranties or guarantees, expressed or implied, makes no representations, and assumes no responsibility as to the accuracy, reliability or completeness of the information presented.

The information contained in this TDS relates only to the specific product designated, and may not be appropriate or valid for the product used in combination with any other materials or products, or in any process, unless specified herein. Since the actual use of the product described herein is beyond our control, Hohmann & Barnard assumes no liability arising out of the use of the product by others. It is the user's responsibility to determine the suitability of the information presented in this SDS, to assess the safety and toxicity of the product under their own conditions of use, and to comply with all applicable federal, state and local laws and regulations. Appropriate warnings and safe handling procedures set forth in this TDS and in the SDS accompanying this product should be provided to all handlers and users of the product.

For questions or information:

Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
weanchor@h-b.com
800-645-0616

For emergencies:

CHEMTREC (24 hours) +800-424-9300