



HUNTER

HUNTER XCI VP-SA WRB

Vapor Permeable Self-Adhering Air and Water Resistive Barrier

TECHNICAL DATA SHEET

Xci VP-SA WRB is a composite membrane designed for use in above-grade wall assemblies to function as a weather resistive barrier. The specially engineered breathable, polyester film is fully coated on one side with a permeable, acrylic adhesive protected with a silicone release liner. Xci VP-SA WRB is compatible with Hunter Xci polyiso products, the Xci AEGIS Wall System™, and other building materials such as gypsum sheathing, concrete, and CMU.

FEATURES AND BENEFITS

- NFPA 285 Approved WRB
- Fully-adhered membrane prevents water migration and air infiltration versus mechanically attached barriers
- Breathable membrane allows passage of water vapor
- Lightweight, self-adhering rolls allow for fast, easy installation
- Printed facer provides easy product identification
- No spray equipment or mil-thickness measurements required



PROJECT CONDITIONS

Building codes and project specifications require continuity of air barrier installation. It is the installer's responsibility to understand the extent and sequencing of air barrier installation on the project. Do not proceed with installation until substrate and project conditions conform to requirements specified in this document. All surfaces accepting Xci VP-SA WRB shall be clean, dry, and of sound condition. Verify that wall assemblies are dried in, such that water intrusion will not occur from above, behind or around the membrane installation. Manage construction-generated moisture by ventilating and dehumidifying the interior. Gaps and cracks exceeding 1/4" in width shall be filled with materials and technique approved by Hunter Panels.

PACKAGING

Product	Size
Xci VP-SA WRB Full Rolls	48" X 100' roll, 1 roll/box
Xci VP-SA WRB Slit Rolls	4" X 100' roll, 6 rolls/carton 9" X 100' roll, 2 rolls/carton 12" X 100' roll, 2 rolls/carton

Substrate	Preparation	Precautions	Adhesive/Primer
Foam Sheathing	Flush at joints, free of sharp protrusions, secured appropriately, free of moisture and mechanical damage, primer dried completely	Fill joints greater than 1/4"	CAV-GRIP is recommended for all installations, required for installations below 40F and warranted AEGIS Wall Systems
Wood Products		Wood moisture content less than 20% prior to WRB install	
Gypsum Sheathing		Extra time for primer to dry	
Concrete		Cured for 7 days minimum	
CMU		Cured mortar joints for 3 days minimum	

INSTALLATION

Install Xci VP-SA WRB in horizontal rows (preferred) or in vertical runs. Wipe dust or debris from film side of product with a clean, dry rag to assist in forming tight laps. Avoid forming wrinkles and air pockets. Press membrane firmly to substrate with a J-roller, especially at laps, corners and terminations. Overlap adjoining pieces of Xci VP-SA WRB a minimum of 3". Use Xci VP-SA WRB strips for detailing. Sequence the installation to provide shingled laps. Membrane shall bear minimum 3" onto each side of transitions such as joints, angle changes and substrate changes. Membrane shall bear 6" minimum onto adjacent membrane systems such as foundation waterproofing or roofing. Install self-adhered flashing details directly to substrate, not to Xci VP-SA WRB. Use self-adhered flashings to wrap window openings, to treat pipe/duct penetrations and to cover expansion joints as shown in Xci VP-SA WRB details. Seal termination of Xci VP-SA WRB onto self-adhered flashings with approved termination sealant. Self-adhered flashings and termination sealants such as Aluma-Grip 701, Dow Corning 758, and Pecora AVB Silicone Sealant are compatible with Xci VP-SA WRB. Dusty conditions and installation temperatures below 40°F may require prepping laps with a contact adhesive such as CAV-GRIP.

REPAIR AND PROTECTION

Repair damage to barrier by removing loosely adhered material and re-covering with Xci VP-SA WRB patch, extending beyond the damage by at least 6" in all directions. Where repair patch is to be installed, clean debris from surfaces of the old Xci VP-SA WRB and prepare with a contact adhesive such as CAVGRIP. Seal terminations of repair patch with approved flashing or termination sealant. If multiple sheets are used in repair/re-cover, offset seams of new installation from underlying Xci VP-SA WRB by 12" minimum. Xci VP-SA WRB is not intended for permanent outdoor exposure and should be covered as soon as possible after installation, not to exceed 180 days.

LIMITATIONS

- Do not allow any sealants or liquid membranes to contact Xci VP-SA WRB except Aluma-Grip 701, Pecora AVB Silicone Sealant, Dow Corning 758 or other product approved by Hunter Panels
- Do not proceed with installation unless ambient and substrate temperature are 20°F or above
- For exterior use only; will not perform as a water resistive barrier in negative side applications
- Do not install below grade, or in areas where ponding water is expected
- Not intended for traffic resistance or as a wearing surface
- Do not install on roofs
- Do not install over un-cured sealants
- 180 day max. UV exposure prior to cladding installation
- Not compatible with impermeable solvent based adhesives

STORAGE

Store Xci VP-SA WRB in a protected area below 90°F. In cold weather, condition rolls to 50°F or warmer to facilitate use. Shelf life in original, un-opened packaging is 1 year.

TYPICAL PHYSICAL PROPERTY DATA

Physical Property	Test Method	Results
Peel Adhesion	ASTM D903	5 pli typical value applied over DensGlass with recommended primer
Tear Initiation and Propagation	ASTM D4073	>30 lbf
Surface Burning	ASTM E84	Flame Spread Index - 10 Smoke Spread Index - 5
Water Penetration	ASTM E331	Passes 10 PSF after 15 minutes
Heat Release Measured by Cone Calorimeter	ASTM E1354	Effective Heat of Combustion: 16.82 MJ/kg Peak Heat Release Rate: 83 kW/m ² Total Heat Release: 6.1 MJ/m ²
Nominal Thickness	ASTM D1177	0.023 inch (23 mils)
Tensile Strength	ASTM D882	Minimum 40 lbf/in width
Lap Peel Strength	ASTM D1876	1.0 lbf/in width, minimum
Water Resistance to Hydrostatic Pressure	AATCC-127-03, mod. 22" [55 cm] column of water for 5 hours	No leaking through membrane or 2" bonded lap
	ICC-ES AC-38	Pass
Water Vapor Permeance of membrane	ASTM E96 B (Water Method) ASTM E96 A (Desiccant Method)	10.53 perms, minimum 9.05 perms, minimum
Water Vapor Permeance of Contact Adhesive [†]	ASTM E96B (water method)	15 Perms, minimum
Air Permeance	ASTM E2178	<=0.001 L/s*m ² @ 75 Pa [0.0002 CFM/ft ² @ 1.57 PSM]
Low Temp Flexibility	ASTM D1970 180° bend over 1" mandrel	No cracking at -20°F
Application Temperature	-	20°F to 180°F

[†]Applied on exterior side of DensGlass Gold. Bare substrate measured 29.75 Perms.



CONTINUOUS INSULATION

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HUNTER

XCI VP-SA WRB

Exterior Wall Applications

INSTALLATION GUIDE

COORDINATION

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous weather resistant barrier is achieved across the assembly.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing, and repair procedures.
- Mock-up shall establish procedures and workmanship that must be maintained during installation.
- Review adjacent construction materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

SUBSTRATE

- Ensure all substrates are installed in accordance with manufacturer specifications. All sheathing fasteners shall be installed in accordance with the manufacturer's instructions. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities that could damage Xci VP-SA WRB.
- Gaps and cracks exceeding 1/4" across shall be filled with materials and techniques approved by Hunter Xci.
- Prevent the accumulation of water infiltration behind the substrate.
- Xci VP-SA WRB is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of Hunter Xci materials.

PROJECT/SITE CONDITIONS

- Xci VP-SA WRB can be applied in ambient and substrate temperatures down to 20°F; CAV-GRIP is recommended for all Xci VP-SA WRB installations and is required for installations below 40°F.
- CAV-GRIP is required for all warranted AEGIS Wall System installations in any temperature.
- Do not apply Xci VP-SA WRB and associated materials to damp or frozen surfaces.
- Do not apply Xci VP-SA WRB in rain or if rain is expected during application time.
- Xci VP-SA WRB is not intended for permanent outdoor exposure and should be covered as soon as possible after installation, not to exceed 180 days.

DELIVERY, STORAGE AND HANDLING

- Deliver Xci VP-SA WRB in original unopened packages.
- Protect Xci VP-SA WRB during transportation, storage, and installation to avoid physical damage.
- Store Xci VP-SA WRB rolls on end and do not double stack pallets.
- Store Xci VP-SA WRB in a cool, dry place protected from freezing, extreme heat, and direct sunlight.

APPLICATION

- Protect surrounding areas and surfaces from damage during application of Xci VP-SA WRB.
- Overlap adjoining pieces of Xci VP-SA WRB by a minimum of 3 inches. Sequence installation to provide shingled laps.
- Xci VP-SA WRB shall bear a minimum of 3 inches onto each side of transitions such as joints, angle changes, and substrate changes.
- Xci VP-SA WRB shall bear a minimum of 6 inches onto adjacent membrane systems such as foundation waterproofing or roofing.
- Press membrane firmly to substrate with a J-roller, especially at laps, corners, and terminations.
- Protect finished work at end of each day to prevent moisture intrusion or damage.
- Ensure a continuous WRB is achieved across the building envelope.
- Verify all materials are installed in accordance with manufacturer's published literature and local code requirements.

APPROVED ACCESSORIES

Detail Flashings

- Xci VP-SA WRB
- Xci Aluma-Grip 701
- Xci FlexShield™ Sill Flashing

Contact Adhesive

- CAV-GRIP

Silicone Sealant

- Dow-Corning 758
- Pecora AVB
- GE SilPruf

Polyurethane Foam Sealant

- Great Stuff Pro
- Froth Pack
- FOMO Foam Sealant
- Others as approved by Hunter Xci

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