



F5™ Air & Vapor Barrier



FEATURES AND BENEFITS

- Factory-controlled thickness ensures uniform barrier properties
- Compatible with a variety of membranes and substrates
- Non-skid surface provides extra safety on the jobsite
- Can be used as a temporary roof for up to 120 days
- Easily removable release liner

OVERVIEW

Mule-Hide F5 Air & Vapor Barrier is a 40 Mil composite consisting of 35 Mills of self-adhering rubberized asphalt laminated to a 5 Mil woven polypropylene film. A siliconized one-piece release liner prevents the material from bonding to itself in the roll and is easily removed for installation. F5 Air & Vapor Barrier is available in a 325 sq. ft. roll with dimensions of 39" x 100'. The factory-controlled thickness of the membrane ensures uniform barrier properties, and the woven polypropylene film increases strength and has a non-skid surface suitable for the bonding of subsequent layers.

Mule-Hide approved low-rise foam adhesive is used to attach insulation to F5 Air & Vapor Barrier. F5 Air & Vapor Barrier can be used on concrete, plywood, exterior gypsum, DensDeck® Prime, SECUROCK® or other approved substrates in conjunction with Mule-Hide roofing systems. Gypsum decks may require additional securement with mechanical fasteners. Use of AeroWeb™, CCW-702 or CCW-702LV is required on all substrates. F5 Air & Vapor Barrier may be installed directly over a nailed modified base sheet when primed with AeroWeb.

F5 Air & Vapor Barrier must be covered with roofing membrane within 120 days. T-joints must be sealed with an internal bead of Lap Sealant. Mule-Hide does not accept responsibility for the watertight integrity of the F5 Air & Vapor Barrier related to workmanship issues or physical damage.

For unusual situations, contact Mule-Hide prior to specifying this material.

INSTALLATION

Surface Preparation: The concrete surface shall be completely dry; dryness shall be determined by a qualified owner's representative. The surface shall have a smooth finish and be free of voids, spalled areas, sharp protrusions, loose aggregate, laitance and form-release agents. Some curing compounds may interfere with proper adhesion, so an adhesion test is recommended. In the event of rain, concrete must be allowed to dry before the application of primer. Artificial drying methods such as torches are not acceptable.

Adhesive: Surfaces to receive F5 Air & Vapor Barrier must be clean and dry. Use of an approved adhesive—AeroWeb, CCW-702 or CCW-702LV—is required on all substrates. Mule-Hide approved low-rise foam adhesives are required for attaching insulation to F5 Air & Vapor Barrier.

Application: F5 Air & Vapor Barrier material must be stored and kept above 60°F prior to installation. Apply F5 Air & Vapor Barrier from low to high points in a shingle fashion so that the laps will shed water. Overlap all edges by at least 2". End laps should be staggered. Position the membrane carefully to avoid fish-mouths and wrinkles.

Roll the F5 Air & Vapor Barrier membrane immediately after installation with a 100-150-pound roller wrapped in a resilient material. When the F5 Air & Vapor Barrier is applied to a vertical surface, hand-rolling with a 2" hand roller is required. Vertical surfaces must be prepared in the same fashion as horizontal surfaces.

Note: For applications below 40°F – all materials must be kept above 60°F prior to installation and AeroWeb primer must be used.

Seaming: Apply a 2"-long bead of Lap Sealant internally along any T-joints or step-offs. Use a hand roller or stand-up seam roller to mate the entire seam together, ensuring the seam's leading edge is rolled properly. Be sure to pay particular attention to the T-joints and step-offs.

If seam surface is contaminated, clean and prime with one of the approved products AeroWeb CCW-702 or CCW-702LV.

Review specifications and details for complete installation information.

PRECAUTIONS

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.
- F5 Air & Vapor Barrier must be dry prior to installation of subsequent layers.
- F5 Air & Vapor Barrier should be installed using AeroWeb when temperatures are below 25°F.
- Avoid moving or stacking heavy loads on the installed membrane, particularly in hot weather. This could thin out the self-adhering barrier layer.
- Refer to applicable Safety Data Sheets and specifications before using any Mule-Hide products.
- Do not apply AeroWeb, CCW-702 or membrane to damp or contaminated surfaces.
- Do not apply AeroWeb, CCW-702 or membrane to frozen substrates.
- Do not allow F5 Air & Vapor Barrier to be exposed for more than 120 days.
- Failure to allow CCW-702 and CCW-702LV to flash off completely will result in blisters and unadhered areas.

Typical Properties & Characteristics

Physical Property	Test Method	Typical
Thickness	ASTM D1970	40 mils
Tensile Strength	ASTM D412	250 psi
Elongation	ASTM D412	250%
Peel Adhesion	ASTM D903	5 lbs/in
Puncture Resistance	ASTM E154	60 lbs
Permeability	ASTM D1970*	0.015 perms
Air Permeance	ASTM E2178	0.000 L*m2 @ 75 Pa

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

*D1970 is tested to E96 standards for permeability.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Terrell, TX
VOC Content	0 g/L
Solar Reflectance Index	N/A

“The name trusted in roofing since 1906”

Customer Line: 800-786-1492 • www.mulehide.com

Check our website monthly for the latest updates & technical bulletins.

National Support Center • 1195 Prince Hall Drive • Beloit, WI 53511 • tel. 608.365.3111 • fax. 608.365.7852



The information herein should not be considered all-inclusive and should always be accompanied by a review of the Mule-Hide specifications and guidelines and good application practices.

This information herein is based upon data and knowledge considered to be true and accurate at the time of printing and is provided for the reader's consideration, investigation and verification. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Mule-Hide Products Co., Inc. does not warrant any results to be obtained. Statements concerning possible use of Mule-Hide products are made without knowledge of your particular roof and such an application may not be fit for your particular purpose. MULE-HIDE DISCLAIMS ALL WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, except written warranties attached to Mule-Hide products and written warranties signed by an officer of Mule-Hide.

Visit the Mule-Hide website at www.mulehide.com prior to any installation for updated technical specifications and details. Mule-Hide is a U.S. registered trademark. AeroWeb, FAST and Flexible FAST are trademarks of Carlisle. OlyBond 500 is a trademark of OMG Roofing Products. SECUROCK is a registered trademark of USG Corporation. DensDeck Prime is a trademark of G-P Gypsum Corporation. LEED is a registered trademark of the U.S. Green Building Council. All rights reserved.