



Product Data Sheet

F5 AIR & VAPOR BARRIER

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PRODUCT DESCRIPTION

Mule-Hide F5 Air and Vapor Barrier is a 40-mil composite consisting of 35 mils of self-adhering rubberized asphalt laminated to a 5-mil woven polypropylene film. It may also be used as a temporary roof. A one-piece silicone poly release liner is applied to the SBS adhesive to prevent the material from bonding to itself. F5 is available in a 325 square foot roll with dimensions of 39" x 100'. The factory-controlled thickness of the membrane ensures uniform barrier properties on the job; the woven polypropylene film increases strength and has a non-skid surface suitable for the bonding of subsequent layers. Mule-Hide Helix® Max Low-Rise Adhesive is approved for attaching insulation to the surface of F5.



F5 can be used on concrete, plywood, exterior gypsum, DensDeck® Prime, SECUROCK® Brand Gypsum-Fiber Roof Board 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 may be installed directly over a nailed approved modified bitumen base sheet when primed with AeroWeb.

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

For unusual situations, contact the Mule-Hide Technical Department prior to using or specifying this material.

Typical Properties and Characteristics		
Physical Property	Test Method	Typical Value*
Thickness	ASTM D1970	40 mils
Tensile Strength	ASTM D412	250 psi
Elongation	ASTM D412	250%
Peel Adhesion	ASTM D903	5 lbs/in
Permeability	ASTM D1970**	0.015 perms
Air Permeance	ASTM E2178	0.000 L*m ² @ 75 Pa

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

*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 or specification range for any particular property of this product.

**D1970 is tested to E96 standards for permeability.

INSTALLATION INSTRUCTIONS

Surface Preparation: Concrete surfaces 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 must be clean and dry. Use of AeroWeb, CCW-702 or CCW-702LV is required on all substrates. Mule-Hide Helix Max Low-Rise Foam Adhesive is approved for attaching roof insulation to F5.

Application: F5 material must be stored and kept above 60°F prior to installation. Apply F5 from low to high points in shingle fashion so that the laps will shed water. Overlap all edges by minimum 2". Stagger all end laps. Position the membrane carefully to avoid fish-mouths and wrinkles. **F5 must be rolled with a 75 lb – 150 lb segmented weighted roller weighing at least 50 lbs per linear foot immediately after installation.** When installing F5 to a vertical surface, hand-rolling with a 2" or 4" hand roller is required. Vertical surfaces must be prepared in the same fashion as horizontal surfaces.

F5 AIR AND VAPOR BARRIER/TEMPORARY ROOF

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 CCW-702, CCW-702LV or AeroWeb.

Review Mule-Hide 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 must be dry prior to installation of subsequent layers.
- F5 must be installed with AeroWeb adhesive when temperatures are below 40°F.
- F5 membrane and primers must be stored above 60°F prior to installation.
- 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 before using any Mule-Hide products.
- Do not apply AeroWeb, CCW-702, CCW-702LV or F5 to damp or contaminated surfaces.
- Do not apply AeroWeb, CCW-702, CCW-702LV or F5 to frozen substrates.
- Primers must be allowed to completely flash off. Refer to primer product data sheet for flash-off times.

PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

ADDITIONAL INFORMATION

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at www.mulehide.com for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the alleged failure before repairs are made.