



# Product Data Sheet

## MULE-HIDE SA BASE SHEET FR

### PRODUCT DESCRIPTION

Mule-Hide's SA Base Sheet (FR) is a premium fiberglass reinforced, modified bitumen membrane with a fire retardant additive, manufactured to meet the toughest industry and code requirements. The Mule-Hide SA Base Sheet (FR) is manufactured via **Adeso™** dual-compound technology, whereby the membrane consists of an Styrene Butadiene Styrene (SBS) modified asphalt compound on top and a pressure sensitive adhesive compound on the bottom. The adhesive is covered with a split release liner. Mule-Hide SA Base Sheet (FR) is finished with a polyolefin film with printed lay lines on the top surface. Meets ASTM D-6163 Type 1, Grade S (smooth) / ASTM D-1970.



### BASIC USES

SA Base Sheet (FR) membranes are specially designed for applications where the use of hot asphalt, cold process adhesive, or a propane torch is undesirable. Applications include new roofing, recover (retrofit) and BUR repairs. Mule-Hide SA Base Sheet (FR) can be used as a waterproofing Base Sheet (FR) applied to approved roof decks or substrates. Do not apply to shingles, shakes or other residential roofing material. See the Mule-Hide Self-Adhered Modified Bitumen Application Guidelines for complete specifications and details.

### SPECIFICATIONS

PRODUCT NAME	THICKNESS mm (mils)	APPROXWEIGHT lb/roll	ROLL SIZE	ROLLS/PALLET	COVERAGE (sq )
SA Base Sheet (FR)	2.0 (80)	95	65'8"x39 3/8" (20mx1m)	20	200 ft <sup>2</sup>

TEST METHOD	TECHNICAL DESCRIPTION	VALUES
ASTM D5147	Maximum load at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min, lbf/in. (kN/m)	30 (5.3)
ASTM D5147	Elongation at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min %	2%
ASTM D5147	Tear strength at 73.4 ± 3.6°F (23 ± 2°C), min, lbf (N)	35 (156)
ASTM D5147	Low temperature flexibility, max, F° (C°)	0°F (-18°C)
ASTM D1970	Adhesion to Plywood @ 40°F (4.4°C), min lbf / ft width	2.0
ASTM D1970	Adhesion to Plywood @ 75°F (24°C), min lbf / ft width	12.0
ASTM D1970	Sealability around nail	Pass
ASTM D1970	Waterproof integrity after low temp flexibility	Pass
ASTM D1970	Waterproof integrity of lap seam	Pass

*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.*

### SYSTEM BENEFITS

1. Pre-applied adhesive on the back of the sheet.
2. Lightweight roll sizes.
3. Durable - high performance reinforcement mat.
4. No hot asphalt, fumes or flames required for installation.
5. Excellent long term adhesion to multiple substrates and to base plies.
6. Offers low-temp flexibility, puncture and tear resistance.

### CODE APPROVALS

Various code approvals are available including: Factory Mutual, Underwriters Laboratories, Miami-Dade, Florida Product Approval, ICC-ESR and Texas Department of Insurance. Contact Mule-Hide Technical Department for specific ratings.



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### **INSTALLATION INSTRUCTIONS** (See complete application instructions)

SA-Base Sheet (FR) is intended to be used as a Base Sheet (FR) or interplay in new or re-roofing applications, and requires the installation of a granulated cap sheet to complete the roofing system.

1. Mule-Hide Nail Base or an approved insulation shall be mechanically attached to a suitable substrate.
  - 1a. Mule-Hide SA Base Sheet (FR) may be adhered directly to a suitable substrate.
2. Starting at the low point of the roof, install Mule-Hide SA Cap Sheet as follows: Unroll the SA Cap Sheet and cut-off approximately 12" from the bottom of the sheet (this will off-set the sheet so that the side laps do not align, the end laps must be off-set as well).
3. After positioning the sheet, fold the top half of the sheet back lengthwise, remove the release liner and roll the material back into place, taking care to avoid wrinkles and trapped air, and maintaining proper sheet alignment.
4. Firmly hand press sheet from the center out avoiding wrinkles and trapped air as the SA Cap Sheet adheres to the SA Base Sheet (FR).
5. Repeat procedure to adhere remaining half of the sheet.
6. After the sheet is adhered, it is required to be rolled with a 75 lb. roller.
7. Position subsequent sheets to overlap the previous courses by the width of the selvage edge (overlap in a shingle fashion ensuring that laps are water shedding).
8. Repeat procedures 2 thru 5 above. Remember to remove the release film from the **FASTLap®** and **SEALLap®** edges prior to adhering the lower half of the SA cap Sheet. **Note:** When completing end laps, cut the top corner of the top sheet on a 45-degree angle (start the cut 3" in from the top edge and finish down 3" from the top edge) and the bottom corner of the bottom sheet on a 45-degree angle (start the cut 3" in from the bottom edge and finish 3" up from the bottom edge). Apply a solid bead of Mule-Hide Mod Bit Sealant along both cut edges. Roll entire sheet into place using a 75 lb. roller. Stagger end laps approximately three feet apart.

This is only a brief summary and NOT the complete specification. The Mule-Hide Self-Adhered Modified Bitumen Application Guidelines, Specifications, Details, Technical Bulletins, associated documents should be thoroughly reviewed prior to starting any project.

### **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](http://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. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at [www.mulehide.com](http://www.mulehide.com) or contact Mule-Hide directly at 800-786-1492 for details. 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.