



SA-SBS Cap Sheet (FR)

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PRODUCT DESCRIPTION

SA-SBS Cap Sheet (FR) is a premium self-adhering polyester reinforced modified bitumen membrane with fire retardant additives manufactured to meet the toughest industry and code requirements. SA-SBS Cap Sheet (FR) is manufactured using **Adeso**[®] dual-compound technology, whereby the membrane consists of a 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. SA-SBS Cap Sheet (FR) is finished with granules on the top surface and features **SEALLap**[®] ULTRA side lap with self-adhesive compound for an instant bond, tested stronger than all other application methods and **FASTLap**[®], granular free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance. SA-SBS Cap Sheet (FR) is also used as a flashing membrane in all applicable specifications. Meets ASTM D6164 Type 1, Grade G (granular) / ASTM D1970.



BASIC USES

SA-SBS Cap Sheet (FR) membranes is 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. This system must be installed over an acceptable base sheet, roof insulation, or other suitable substrate. See the Mule-Hide Self-Adhered Modified Bitumen Application Guidelines for complete specifications and details.

SPECIFICATIONS AND PACKAGING

Thickness	Approx. Weight	Roll Size	Rolls/Pallet	Coverage
3.5 mm (140)mils	84 lb./roll	32'10"x39 3/8" (10mx1m)	20	100 ft ²

Physical Property	Test Method	ASTM Values	Typical Performance
Peak Load at 0°F (-18°C)	ASTM D5147	70 lbf/in. (12.3) kN/m	138 lbf/in (24.2 kN/m) -MD 88 lbf/in (15.4 kN/m) -XMD
Elongation at Peak Load at 0°F (-18°C)	ASTM D5147	20%	52% MD, 64% XMD
Peak Load at 73°F (23°C)	ASTM D5147	50 lbf/in. (8.8) kN/m	80 lbf/in (14.0 kN/m) -MD 56 lbf/in (9.8 kN/m) -XMD
Elongation at Peak Load at 73°F (23°C)	ASTM D5147	35%	53% MD, 65% XMD
Ultimate Elongation at 73°F (23°C)	ASTM D5147	38%	84% MD, 93% XMD
Tear Strength at 73°F (23°C)	ASTM D5147	55 lbf (246) N	129 lbf (574 N)- MD 83 lbf (369 N) -XMD
Dimensional Stability (Maximum)	ASTM D1547	1%	0.3% MD, 0.6% XMD
Low Temperature Flexibility, max, F° (C°)	ASTM D5147	0°F (-18°C)	Pass
Compound Stability (maximum)	ASTM D5147	215°F (102°C)	Pass
Granule Embedment (maximum loss)	ASTM D5147	2g	1.5g
Adhesion to Plywood @ 40°F (4.4°C)	ASTM D1970	2.0 lbf/ft	4.7 lbf/ft
Adhesion to Plywood @ 75°F (24°C)	ASTM D1970	12.0 lbf/ft	31.0 lbf/ft
Colors Available	Black, Buff, Chestnut, Grey Slate, Oak, White, Red Blend, Pine Green, Heather Blend, Weatherwood		
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.			

PRODUCT BENEFITS

1. Pre-applied adhesive on the back of the sheet.
2. Durable - high performance reinforcement mat.
3. No hot asphalt, fumes or flames required for installation.

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4. Excellent long term adhesion to multiple substrates and to base plies.
5. Offers low-temp flexibility, puncture and tear resistance.
6. *FASTLAP* granule free end lap provides faster, stronger seams.
7. *SEALLap* Ultra granule free selvage edge now with self-adhesive compound for an immediate, long-term monolithic seam.

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.

APPLICATION GUIDELINES

Apply SA-SBS Cap Sheet (FR) only in dry weather and when air and surface temperatures are 40°F (5°C) and rising.

- Apply over clean, dry, dust and debris-free substrates.
- Mule-Hide 121 Asphalt Primer or High-Tack Primer (water based) may be used where a primer is required. Contact Mule-Hide for appropriate uses and further information.
- All substrates shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of SA-SBS Cap Sheet (FR) should not adversely affect the ventilation of existing construction.
- Do not apply directly to existing shingles, shakes or other unacceptable roof coverings.

INSTALLATION INSTRUCTIONS

SA-SBS Cap Sheet (FR) is intended to be used as a cap sheet or top layer in new or re-roofing applications, and is required to complete the roofing system.

1. Nail Base or an approved insulation shall be mechanically attached to a suitable substrate. SA-SBS Cap Sheet (FR) may be adhered directly to a suitable substrate.
2. Starting at the low point of the roof, unroll the SA-SBS Cap Sheet (FR) and allow it to relax.
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-SBS Cap Sheet (FR) adheres to the Nail Base Sheet, SA-Base Sheet, or approved substrate.
5. When completing end laps stagger end laps approximately three feet apart. 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 Mod Bit Sealant along both cut edges. Remember to remove the release film from the *FASTLap*[®] and *SEALLap*[®] edges prior to adhering the lower half of the SA-SBS Cap Sheet (FR).
6. Repeat procedure to adhere remaining half of the sheet.
7. After the sheet is adhered, it is required to be rolled with a 75 lb. roller, roll across the 3' width first, then the length of the roll can be rolled.
8. 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).

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

PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its nonexempt 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

Product Data Sheet

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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. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at 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 (FR)om 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.

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