



SA-APP Cap Sheet FR

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PRODUCT DESCRIPTION

SA-APP 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-APP Cap Sheet FR is manufactured using **Adeso®** dual-compound technology, whereby the membrane consists of an Atactic Polypropylene (APP) modified asphalt compound on top and a pressure sensitive adhesive compound on the bottom. The adhesive is covered with a split release liner. SA-APP 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. SA-APP Cap Sheet FR is also used as a flashing membrane in all applicable specifications. Meets ASTM D6222 Type 1, Grade G (granular) / ASTM D1970.



BASIC USES

SA-APP Cap Sheet FR membrane 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
3.6 mm (142)mils	89 lb./roll	32'10"x39 3/8" (10mx1m)	20	100 ft ²

Physical Property	Test Method	ASTM Values	Typical Performance
Peak Load at 73°F (23°C)	ASTM D5147	50 lbf/in. (8.8) kN/m	97 lbf/in (17 kN/m) -MD 58 lbf/in (10 kN/m) -XMD
Elongation at Peak Load at 73°F (23°C)	ASTM D5147	23%	55% MD, 60% XMD
Peak Load at 0°F (-18°C)	ASTM D5147	60 lbf/in. (10.5) kN/m	132 lbf/in (23 kN/m) -MD 92 lbf/in (16 kN/m) -XMD
Elongation at Peak Load at 0°F (-18°C)	ASTM D5147	10%	35% MD, 38% XMD
Ultimate Elongation at 73°F (23°C)	ASTM D5147	30%	57% MD, 66% XMD
Tear Strength at 73°F (23°C)	ASTM D5147	70 lbf (311) N	138 lbf (614 N)- MD 108 lbf (480 N) -XMD
Low Temperature Flexibility, max, F° (C°)	ASTM D5147	32°F (0°C)	Pass
Dimensional Stability (Maximum)	ASTM D1547	1%	0.2% MD, 0.3% XMD
Compound Stability (maximum)	ASTM D5147	230°F (110°C)	Pass
Granule Embedment (maximum loss)	ASTM D5147	2g	.65g
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 polyester reinforcement mat.
3. No hot asphalt, fumes or flames required for installation.
4. Excellent long term adhesion to multiple substrates and to base plies.

SA APP Cap Sheet FR

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-APP 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-APP 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 APP 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 Base Sheet may be adhered directly to a suitable substrate.
2. Starting at the low point of the roof, unroll the SA-APP 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-APP Cap Sheet FR adheres to the 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-APP 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 minimum 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 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.

Product Data Sheet

SA APP Cap Sheet FR

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.

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