



Product Data Sheet

MULE-HIDE APP TORCH S

PRODUCT DESCRIPTION

Mule-Hide's APP Torch S membranes are premium, polyester reinforced APP modified bitumen roofing membranes specially designed for heat-welded (torch) applications. Constructed with premium Atactic Polypropylene resins and incorporating superior polyester reinforcing, APP Torch S provides an exceptionally durable roofing product which is easy to install and will provide long-term weathering. Mule-Hide APP Torch S has a sanded surface and a polyolefin backing. Torch APP S exceeds all minimum ASTM standards for tensile strength, puncture resistance and flexibility. Meets ASTM D 6222 Type 1 requirements.



BASIC USES

APP Torch S membranes are designed for application as a heat-welded (torch) applied cap sheet or flashing. Applications include new roofing, recover (retrofit) and BUR repairs. The system must be installed over an acceptable substrate or as part of a multi-ply system.

TYPICAL PHYSICAL PROPERTIES

Product Name	Thickness mm (mils)	Weight lb/roll	Roll Size	Rolls / Pallet	Coverage per roll
APP Torch S	4.0 (160)	85	32'-10" x 39 3/8" (10m x 1m)	23	100 ft ²

Test Method	Property	Typical Values
ASTM D5147	Thickness, typical, mm (mils)	4.0 (160)
ASTM D5147	Peak Load @ 23°C ± 2°C (73.4°F ± 3.6°F), MD and XMD, min, kN/m (lbf/in.)	8.8 (50)
ASTM D5147	Elongation @ 23°C ± 2°C (73.4°F ± 3.6°F), MD and XMD, min (%)	23
ASTM D5147	Tear Strength @ 23°C ± 2°C (73.4°F ± 3.6°F), min N (lbf)	311 (70)
ASTM D6222	Low Temperature Flexibility, max	0°C (32°F)

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.

BENEFITS & SUPPLEMENTAL STATEMENTS

- Exceptional weathering characteristics
- Puncture and tear resistance
- Low-temperature flexibility
- Exceptional tensile strength and elongation properties
- Top surface is sanded and has a light brown color

CODE APPROVALS/COMPLIANCE

A variety of Factory Mutual Ratings, Underwriters Laboratories Classifications, Texas Department of Insurance and Florida Product Approvals are available. Contact Mule-Hide Warranty Department for additional information.

INSTALLATION INSTRUCTIONS

APP Torch S is intended to be used as the primary weathering surface in new or re-roofing applications and is to be applied as the outermost layer of a multi-ply roofing system over a compatible Mule-Hide base sheet or inner ply sheet as a cap sheet or flashing. APP Torch S may also be applied directly to non-combustible substrates.

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INSTALLATION INSTRUCTIONS (continued)

- Apply over clean, dry, dust and debris free substrates.
- Concrete decks must first be primed with Mule-Hide 121 asphalt primer
- When re-roofing, remove all existing roofing materials down to a clean, dry substrate. Ensure that all abandoned roof projections are properly closed off.
- Concrete and steel roof decks are to be designed with proper expansion joints.
- Wood decks should have all joints blocked and properly supported.
- Verify the fire rating of the roofing assembly over any combustible substrate.
- Ensure that the installation of APP Torch S does not prevent the ventilation of the existing construction.
- Do not apply over shingles or any granulated surface.
- When installing APP Torch S
 - Start at the low point of the roof.
 - Unroll the material and allow to relax in the sun for at least 15 minutes.
 - Install with traditional torch roofing techniques ensuring proper heating of the roofing material as not to expose the reinforcement.
 - Do not heat the substrate.
 - Position successive rolls providing a minimum 6" end lap and 3" side lap. Asphalt bleed out shall be 1/4" to 3/8" on all seams.
 - It is suggested but not mandatory that laps shall be rolled with a 6" wide roller immediately after heat-welding.
- Details and flashings may be installed using APP Torch S with torch applied techniques. Do not use cold adhesives or hot asphalt. Check project details for proper installation requirements.

This is only a brief summary and NOT the complete specification. Mule-Hide 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.

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 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.