



Product Data Sheet

MULE-HIDE NAIL BASE



PRODUCT DESCRIPTION

Mule-Hide's Nail Base is a premium fiberglass reinforced, modified bitumen membrane manufactured to meet the toughest industry and code requirements. The Mule-Hide Nail Base is manufactured with a Styrene Butadiene Styrene (SBS) modified asphalt compound that exhibits exceptional waterproofing and weathering properties. Mule-Hide Nail Base is finished with a polyolefin film with printed lay lines on the top surface. Meets ASTM D-6163 Type 1, Grade S.

BASIC USES

Nail Base membranes are specially designed for mechanical attachment. Applications include new roofing, recover (retrofit) and BUR repairs. This system must be installed over an acceptable roof deck, roof insulation, or other suitable substrate. 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)
Nail Base	2.0 (80)	96	65'8" x 39-3/8" (10mx1m)	20	200 ft ²

TEST METHOD	TECHNICAL DESCRIPTION	VALUES Grade G
ASTM D228	Net mass/unit area, min, lbs/100 ft ² (g/m ²)	45 (2197)
ASTM D5147	Bottom coating thickness, min, mils (mm)	40 (1.0)
ASTM D5147	Maximum load at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min, before and after heat conditioning, lbf/in. (kN/m)	30 (5.3)
ASTM D5147	Elongation at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min, at maximum load, before and after heat conditioning, %	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, before and after heat conditioning, °F (C)	0°F (-18°C)

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)

Nail Base is intended to be used as a suitable surface to adhere to in a new or re-roofing applications, and requires the installation of a granulated cap sheet to complete the roofing system.

1. Mule-Hide Nail Base shall be mechanically attached to a suitable substrate.
2. Starting at the low point of the roof, position Mule-Hide Nail Base over substrate. Ensure that polyolefin film is on the top side (with lay lines) and sand finish is on the bottom.
3. Position Nail Base with approximate 4" overlap on side laps (1st lay line) and end laps.
4. Attach Nail Base to substrate using appropriate fasteners (usually 1" cap nails). Typical attachment patterns are:
 - a. FM 1-60 pattern: Fasten 12" on center in the seams and one row fastened 18" on center in the center of the sheet. See Detail MH-MB-NB FM 1-60
 - b. FM 1-90 pattern: Fasten 12" on center in the seams and two rows stagger fastened 18" on center thru the center of the sheet. See Detail MH-MB-NB FM 1-90
 - c. Other attachment patterns may applied based on the wind uplift requirements of the system.
4. Once Nail Base has been installed, promptly cover with SA-Base Sheet or SA-Cap Sheet.
5. Having been attached with fasteners, Nail Base is not watertight.

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.

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.