



Shur-Gard MU Ultra HT

Apr 2023

DESCRIPTION

Shur-Gard MU Ultra HT is a self-adhered high-temp waterproofing underlayment for use under metal and various other roof coverings. The top surface is composed of a UV resistant high strength polyolefin composite film with anti-skid coating which is mated to a high-temp SBS (elastomeric) self-adhered compound. A siliconized split-release paper provides quick and accurate Shur-Gard MU Ultra HT installation.

This carrierless membrane is highly flexible, ideal for flashing around roof penetrations and transitions and other critical areas.

Although Shur-Gard MU Ultra HT is designed for metal roof coverings, this versatile underlayment can also be installed under asphalt shingles, synthetic tiles, and other approved roof coverings.



BASIC USES

- Specifically designed as underlayment for high temperature applications.
- Approved for application under steel and aluminum roof panels.
- Over entire roof and/or for valleys, skylights, and other critical areas.
- As part of a multi-ply underlayment system.
- Can be used as a vapor retarder for approved Mule-Hide Modified Bitumen and underlayment membrane systems. Please contact the Mule-Hide Technical Service Department for specific details.

TYPICAL PHYSICAL PROPERTIES

Physical Properties and Typical Performance			
Physical Property	ASTM Testing Method	ASTM Value	Typical Results
Tensile Strength	D412		713 psi [4.92 MPa] - MD 654 psi [4.51 MPa] - XMD
Elongation at break	D412		568% - MD 605% - XMD
Thermal Stability	D1970	0.1 in [3 mm]	PASS
Adhesion to plywood, min @ 75°F	D1970	12.0 lbf/ft [5.44 kgf/30.5 cm]	25.6 lb/ft [373.60 N/m]
Waterproof Integrity of Lap Seam	D1970		≥ 20 lbf
Low temperature flexibility, max	D1970	pass at -29°C [-20°F]	Pass
Sealability Around Nail	D1970	Pass	Pass
Moisture Vapor Permeance, max	E96	max 0.1 U.S. Perms [5.7 ng/Pa.S.M.2]	Pass

PACKAGING

20 rolls per pallet, roll size is 36 1/4" x 65'11"
 Weight: 56 lbs. per roll (nominal)
 Gross Coverage: 200 SF per roll
 Thickness: 42 mils

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FEATURES AND BENEFITS

- Waterproofing against water infiltration and ice dam conditions.
- Cool white top film with bi-directional lay lines.
- Skid-resistant surface embossing.
- Highly flexible; ideal for flashing around roof penetrations and transitions and other critical areas.
- Asphaltic compound provides excellent sealability around nails.
- Rubberized asphalt bleed-out along edge ensures watertight seam.
- Approved up to 250°F.
- 180 days exposure.

STORAGE & HANDLING

Shur-Gard MU Ultra HT membranes should be stored in their factory applied packaging. It is recommended that self-adhered products be stored inside a dry, protected warehouse at a temperature not exceeding 110°F. Mule-Hide recommends a maximum of one level of stacking of all self-adhered products while in protected storage as stacking higher may damage the material.

APPLICATION

- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with Mule-Hide 121 Asphalt Primer. Consult Mule-Hide Technical Services if alternate primer is allowed.
- Apply only when the substrate is dry and project related temperatures (air, roof deck, membrane) are 40°F and rising. At lower temperatures, nailing or priming should be used to temporarily hold the membrane in place while adhesion develops.
- Mule-Hide recommends applying covering within 180 days unless otherwise limited by the Authority Having Jurisdiction (AHJ). Mule-Hide underlayments are **not** designed for use at exposed application locations such as crickets, exposed valleys, and exposed areas at walls.
- If full roof coverage application is desired, proper venting of the structure is recommended. Consult a design professional for proper venting requirements. Applications involving non ventilated attics or sheathing with radiant barriers, an anchor sheet is recommended to allow venting and prevent the creation of a double vapor barrier condition.
- Directly over the acceptable surface install Shur-Gard MU Ultra HT, without wrinkles or fish mouths. Unless the substrate surface is flat, voids may occur which will be hard to seal and may not render a permanent, waterproof roof. It is the installer's responsibility to ensure that substrate conditions permit a wrinkle and void-free installation. Any voids occurring may have to be sealed with a heat gun or other suitable mastic.
- When a double-layer installation of Shur-Gard MU Ultra HT membrane is specified or desired, membrane may be installed with a half-lap installation technique to avoid build up at laps.
- Cut the Shur-Gard MU Ultra HT to a suitable, workable length prior to placement. Working from the low point to the high point of the roof, position the material in the desired location on the substrate and proceed as follows.
- Partially fold the material back onto itself (widthwise) and remove the split back release paper from the exposed side. Mule-Hide recommends removing that half of the split release paper at a 30-degree angle, while maintaining a low clearance to the roof deck. Gradually push/roll the material into place. Do not lift and drop the material into place as such can create voids that may be difficult to remove. Should such voids be created during application, cut voids for relief and patch with like materials.
- Apply even pressure along the entire length of the membrane, from center to outer edges, to avoid air inclusions or wrinkles. Repeat for other side.
- Position the next sheet by overlapping seams to lineup side laps with the lay lines provided on the surface of the membrane to achieve the 3.5" side lap. Remove the clear, protective edge release film before adhering side laps. Overlap cut end laps a minimum 6". Install the membrane such that all laps shed water.
- Repeat the above procedure for all subsequent sheets.
- After initially setting the sheet, it is required that uniform pressure be applied to the entire roll area by using a minimum 75 lb. linoleum roller, or similar weighted roller. When rolling the membrane in place, the short dimension should be rolled first and once that is completed the sheet can be rolled in the long dimension. Care must be taken to prevent injury when rolling membrane, especially on sloped surfaces.

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APPLICATION (cont.)

- Repair of Shur-Gard MU Ultra HT is to be accomplished by applying a patch of the Shur-Gard MU Ultra HT material over the area in need of such repair, apply sufficient pressure to ensure contact. Repair is to extend a minimum of 6 inches in all directions beyond affected area.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

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 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 Co., Inc. at 800-786-1492.

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