



Shur-Gard TU FORCE HT

Feb 2023

DESCRIPTION

Shur-Gard TU FORCE HT is a self-adhered, dual reinforced waterproofing underlayment designed for use in adhesive foam or mechanically fastened roof tile applications. Utilizing ADESO® dual-compound self-adhered technology, Shur-Gard TU FORCE HT features a UV resistant polymer modified bitumen plastomeric upper compound, and a proprietary self-adhesive SBS (elastomeric) compound on the bottom. A split release film that protects the self-adhesive compound allows for easy application.

Shur-Gard TU FORCE HT features dual reinforcement consisting of an internal fiberglass mat and a superior polyester reinforced surface fabric. This reinforcement combination creates a robust membrane that provides puncture resistance to heavy tiles and deck and substrate imperfections. The top surface is engineered for both slip resistance and tile stacking.

Shur-Gard TU FORCE HT features patented SEALLap® factory applied adhesive treatment at the membrane overlap which provides a quick watertight bond.

Although Shur-Gard TU FORCE HT is designed as an underlayment for clay and concrete tile coverings, this membrane can also be installed under slate tiles. This product is suitable for the high temperature environments (up to 265°F) under tile, metal, and other roof coverings. Shur-Gard TU FORCE HT can be installed as part of a multi-ply underlayment system when used over Shur-Gard MU FORCE HT.



BASIC USES

- Adhesive set and mechanically fastened roof tile applications.
- Can be used as part of a multi-ply underlayment system over Shur-Gard MU FORCE HT.
- Robust membrane provides puncture resistance to heavy tiles, substrate imperfections, ideal for re-roofing applications.

TYPICAL PHYSICAL PROPERTIES

Physical Properties and Typical Performance		
Physical Property	ASTM Testing Method	Typical Results
Maximum Load, Longitudinal and Transverse, min, kN/m [lbf/in.]	D5147	4.4 [25]
Elongation at break, min of modified bitumen portion [%]	D5147	10
Tear Resistance, Longitudinal and Transverse, min, N [lbf]	D5147	89 [20]
Moisture Vapor Permeability, max, perms	E96	0.1
Adhesion to Plywood @ 40°F, min, lbf/ft width	D1970	2.0
Adhesion to Plywood @ 75°F, min, lbf/ft width	D1970	12.0
Sealability around nail	D1970	pass
Waterproof integrity after low temp flexibility	D1970	pass
Waterproof integrity of lap seam	D1970	pass
Slip Resistance	D1970	pass

Shur-Gard TU FORCE HT

PACKAGING

25 rolls per pallet, roll size is 39 3/8" x 65'8"

Weight: 79 lbs. per roll (nominal)

Coverage: 200 SF per roll (approximate)

Thickness: 80 mils

FEATURES AND BENEFITS

- Patented ADESO dual-compound self-adhered technology.
- Patented SEALLap factory-applied adhesive for fast watertight seams.
- Dual reinforcement provides added puncture resistance.
- Polyester mat surface engineered for slip resistance and strong foam set adhesion.
- Strong foam adhesive bond to top fabric & aggressive self-adhered bottom surface for increased wind-uplift resistance.
- Asphaltic compound provides excellent sealability around nails.
- Up to 12-month exposure (mechanically attached roof covering). Up to 6-month exposure (adhesive set roof covering).*

STORAGE & HANDLING

Shur-Gard TU FORCE 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

- Shur-Gard TU FORCE HT may be applied directly to the roof deck where allowable by Code, or to various approved substrates such as ASTM D226 type roofing felts and Poly ISO insulation. For additional substrate requirements and information refer to Mule-Hide's Technical Data Bulletin 07-2301.
- Do not apply directly on to existing shingles or other roof coverings.
- Apply only when the substrate is dry and project related temperatures (air, roof deck, membrane) are 40°F and rising.
- Cut the Shur-Gard TU FORCE HT to a suitable, workable length prior to placement.
- Lay the material flat in place, starting at the lowest point.
- Overlap seam 3" covering the entire "Nail Area" up to the guideline and a minimum 6" at end laps.
- Peel half of the release film from the roll and apply firm, even pressure from the center to the outer edge. Remove the backing from the remaining half of the roll and apply pressure.
- 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.
- Be sure to follow all local building code recommendations and requirements with regards to the width of ice dam materials.
- If full roof coverage application is desired, proper venting of the structure is recommended. Consult a design professional for proper venting requirements. Applications involving nonventilated attics or sheathing with radiant barriers, an anchor sheet is recommended to allow venting and prevent the creation of a double vapor barrier condition.
- In steep slope applications where, back nailing may be recommended, be sure that all nails are covered by the overlapping next sheet.
- Shur-Gard TU FORCE HT must be covered within 6 months of installation (adhesive set roof coverings) or 12 months (mechanically attached roof covering) or unless otherwise limited by the Authority Having Jurisdiction.
- Use Mule-Hide RGA-1 or Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement to seal all end laps, hip and ridge details, and any "fabric to fabric" splices, patches or details.
- Apply a bed of cement on any metals, vents, stacks, chimneys, and other roof accessories.
- Use on any repairs to the underlayment prior to application of the final roof covering.

Shur-Gard TU FORCE HT

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.

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.