



# Product Data Sheet

## MULE-HIDE POLYEPICHLOROHYDRIN (ECO/CO)

### PRODUCT DESCRIPTION

Mule-Hide cured, non-reinforced 60-mil thick (1.52 mm) Polyepichlorohydrin roofing membrane is a factory fabricated, Polyepichlorohydrin, ECO/CO, polymer based elastomeric homogenous roof covering which may be used for new single-ply roof construction and reroofing applications where increased resistance to hydrocarbons, aromatic solvents, grease and oil is a design criterion. Membranes are available in widths of 10' (3 m) and lengths of 50' (15 m).

### BASIC USES

Used as a protective overlayment on EPDM Roofing Systems having positive drainage.

### TYPICAL PROPERTIES AND CHARACTERISTICS

<b>Mule-Hide Polyepichlorohydrin 60-mil ECO/CO</b>			
<b>TYPICAL PROPERTIES AND CHARACTERISTICS</b>			
Physical Property	Test Method	SPEC.(Pass)	Typical
Tolerance on Nominal Thickness, %	ASTM D 412	±10	±10
Tensile Strength, min, psi (MPa)	ASTM D 412	1305 (9.0)	1550 (10.7)
Elongation, Ultimate, min, %	ASTM D 412	200	250
Tear Resistance, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	225 (39.4)
Resistance to Heat Aging* Properties after 168 hours @ 240°F (116°C) Tensile Strength, min, psi (MPa) Elongation, Ultimate, min, %	ASTM D 412 ASTM D 412	1305 (9.0) 150	1500 (10.3) 182
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D 746	-20 (-29)	-20 (-29)
Water Vapor Permeance* max, perms (.060" thickness)	ASTM E 96 (Proc. B or BW)	No ASTM Spec.	0.60
Resistance to Oil Aging* Change in mass, max, % after 7 days immersion in diesel fuel #2 at 158°F (70°C)	ASTM D 471	+15	+15
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 range for any particular property of this product.			
*Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.			

### STORAGE & HANDLING

Use proper stacking procedures to ensure sufficient stability of the materials.  
Exercise caution when walking on wet membrane. Membranes are slippery when wet.

### PRECAUTIONS

1. Use proper stacking procedures to ensure sufficient stability of the materials
2. Exercise caution when walking on wet or frosty membrane. Membranes are slippery when wet or frosty.

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## **INSTALLATION INSTRUCTIONS**

### **Adhered or Mechanically Attached EPDM System**

1. ECO/CO can be adhered to an underlying adhered or mechanically fastened EPDM roofing system using Bonding Adhesive or Low-VOC Bonding Adhesive. Do not apply bonding adhesive within 6" of the ECO/CO membrane edge or underlying membrane.
2. Splice the ECO/CO to the underlying membrane by first cleaning the seam area with Weathered Membrane Cleaner.
3. Apply Tape Primer or Low-VOC Tape Primer to the ECO/CO and underlying membranes. After the primer has properly flashed off, install In-Seam Tape and create a seam between the two membranes as per detail MHE-111.
4. Using a 2"-wide roller, roll the seam area where the In-Seam Tape was applied.

### **Ballasted EPDM System**

1. After the EPDM membrane has been installed, overlay with ECO/CO membrane. The ECO/CO membrane can be loose-laid. Adhesive is not required for this installation.
2. Splice the ECO/CO to the underlying membrane by first cleaning the splice area with Weathered Membrane Cleaner.
3. Apply Tape Primer or Low-VOC Tape Primer to the ECO/CO and underlying membranes. After the primer has properly flashed off, install In-Seam Tape and create a seam between the two membranes as per detail MHE-111.
4. Using a 2"-wide roller, roll the seam area where the In-Seam Tape was applied.
5. Install the ballast in accordance with the job specification and Mule-Hide requirements.

*Review Mule-Hide specifications and details for complete installation information.*

## **PROTECTION & SAFETY**

Mule-Hide maintains Material Safety Data Sheets on all of its products. Material 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 Material 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](http://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](http://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