



# Product Data Sheet

## MULE-HIDE #311 NON-FIBRATED EMULSION ROOF COATING

### PRODUCT DESCRIPTION

Mule-Hide #311 Non-Fibrated Emulsion Roof Coating is an asphalt based, clay emulsion roof coating that can be used as a protective coating over smooth surfaced asphalt built-up and modified bitumen membranes. Can also be used as a base coat for reflective coatings. This product does not flow when applied in thick coatings and when dry, will stay in place when exposed to elevated temperatures. In addition, the solvent free formulations are water based and non-combustible, requiring no “red tag” labeling for fire hazard.



### BASIC USES

- Contains a soft, ductile type asphalt offering resistance to the effects of exposure to rain, snow and heat.
- Has a semi-paste consistency that is easily brush, roll or spray applied.
- Used as a protective coating for metal roofing, masonry, stucco, parapet walls, curbs and base flashings.
- A damp proofing compound to below grade walls.
- As a protective coating on the inside of planter boxes.
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.

### PHYSICAL PROPERTY INFORMATION\*

Property	Value
Maximum VOC	<30 G/L
Solubility	Water soluble
Flash Point (T.C.C.)	None
Boiling Point	212°F
Vapor Density	Heavier than air

\* Data reported is based on available independent and in-house resources. Mule-Hide reserves the right to change or modify, at its discretion, and without prior written notice, any of the information, requirements, specifications or policies contained in this document.

### PACKAGING

4.7 Gallon Pail (17.79 Liters)

### BENEFITS & SUPPLEMENTAL STATEMENTS

- High flexibility to accommodate temperature-related expansion and contraction of the roof system.
- Great bonding strength.
- Provides exceptional weathering characteristics over a wide range of challenging temperatures and weather conditions.
- Non-destructive to conventional asphalt based roofing membranes.

### CODE APPROVALS/COMPLIANCE

- Miami Dade County Approved
- Meets or exceeds requirements of ASTM D1227 Type III Class I

### COVERAGE RATES AND SPRAY TIP SIZES

- Approximately 3 – 4 gallons per 100 sq. ft., dependent upon roof surface.
- Spray requirements are 3,000 psi at 2 – 8 gallons per minute
- Tip size = 0.0861<, Fan = 6” – 12”  
(All values are approximate and may vary with ambient temperature and job conditions)

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## INSTALLATION TEMPERATURE

- Apply only when ambient temperatures are 50°F and rising. Cold weather could result in uneven application and improper curing of product. Cold weather will cause product to stiffen making application more difficult.
- Store product at room temperature for minimum 24 hours prior to application.
- Do not heat container or attempt to thin this product.
- Do not apply if there is a threat of inclement weather within 24 hours of application.

## INSTALLATION INSTRUCTIONS

### Surface Preparation:

- All surfaces to be adhered must be clean, dry and free from any foreign matter such as oil, grease, dirt or any debris that could inhibit the bonding capabilities of the coating.
- Sweep or hose off thoroughly to remove all dust and debris.
- Scrub low areas with powdered detergent and water and rinse completely and allow to dry.
- On existing roofs, inspect roof deck condition – moisture in old roof may indicate need for roof repair. blisters, buckles and raised edges should be cut out and repaired for a smooth surface.
- Check all flashings, edges, drains, valleys and vents and repair as needed.
- Dusty or porous masonry, old roofs, and all metal surfaces should be primed with Mule-Hide #121 Asphalt Primer and allowed to dry thoroughly before applying #311 Non-Fibrated Emulsion Roof Coating.
- Do not install directly over wet or damp surfaces, wood, Coal Tar, gravel surfaced membranes, shingles or surfaces previously covered with coal tar based products, or over Kynar finishes.
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.

### Installation Method:

- Mule-Hide coatings must be mechanically mixed thoroughly before and during application.
- Apply emulsion with roofing brush, roller or high pressure spray covering the surface at the rate of 3-4 gallons per 100 sf per coat as a topical protective coating.
- Drying time is 6 to 24 hours under good conditions, or 2-7 days during damp or cool weather. However actual drying time will vary depending on actual weather conditions.
- Will not prevent alligating of hot-mop asphalt roofing.
- Not recommended over extremely aged, dry brittle roofing.
- Do not apply if there is a threat of rain within 24 hours.

## PRECAUTIONS

### COMBUSTIBLE LIQUID AND VAPOR

- Contains petroleum distillate. Harmful or fatal if swallowed. Close container after each use. DO NOT TAKE INTERNALLY! Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Causes nose and throat irritation. Causes eye irritation. Causes skin irritation. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat and open flame.
- Use only with adequate ventilation. **CLOSE AIR INTAKES** on roof until solvents dissipate. Do not breathe vapors. If you experience eye watering, headache, or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.
- **California Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer, birth defects and/or reproductive harm.

**Personal Protection** – Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

**Eye Contact** – Rinse immediately with clean water for 15 minutes and see medical advice.

**Waste Disposal** – Empty containers must be disposed of in accordance with local, state, and federal regulations.

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## **PRECAUTIONS (continued)**

**For Professional Use Only** – Keep out of the reach of children.

**For Exterior Use Only** - Refer to material safety data sheet (MSDS) for specific data and handling.

## **CLEAN UP**

- Clean tools with mineral spirits or paint thinner.

## **STORAGE & HANDLING**

- Product shelf life is 18months from date of manufacture when properly stored.
- Do not store material at temperatures greater than 120°F.
- Store container at room temperature for minimum 24 hours prior to use.
- Observe normal safeguards for storing and handling of product prior to and during use.
- Do not allow product to freeze. Discard if product becomes frozen.
- Keep containers tightly covered when not in use.

## **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](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. 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.