



# Product Data Sheet

## MULE-HIDE #416 STANDARD NON-FIBRATED ALUMINUM ROOF COATING

### PRODUCT DESCRIPTION

Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating provides high-performance protection for asphalt-based roofs. Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating is easier to spread and provides greater coverage, though it weathers more rapidly. This formula is non-destructive to asphalt based roofing membranes.

### BASIC USES

- Designed for application over new or existing APP or SBS, smooth or granulated surface, cap sheet, asphalt built-up roofs and flashings.
- Can be used to coat a variety of other substrates including storage tanks, masonry surfaces, and structural steel.
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.
- Apply product only in areas with positive drainage.



### PHYSICAL PROPERTY INFORMATION\*

Property	Value
Maximum VOC	500 G/L
Consistency	Thick Black Liquid
Weight	7.8 lbs per gallon
Flash Point (T.C.C.)	107°F+
Dry Film Characteristics	Firm, non-tacky
Appearance	Bright Aluminum
Drying Time	1 – 2 hours to touch (average)

\* 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)  
50 Gallon Drums

### BENEFITS & SUPPLEMENTAL STATEMENTS

- Reflectivity is greater than that of a white mineral cap sheet.
- Reflectivity of the aluminum flakes protects the roofing membrane from damaging heat and UV radiation, which can prolong the life of the roofing system.
- Reflectivity also protects the asphaltic oils of the coating from damage.
- Great bonding strength to base material.
- Offers excellent weathering characteristics and will not prematurely crack or dry out.
- Non-destructive to conventional asphalt based roofing membranes.

### CODE APPROVALS/COMPLIANCE

- Miami Dade County Approved
- Meets or exceeds requirements of ASTM D2824 Type I

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## **COVERAGE RATES AND SPRAY TIP SIZES**

- Approximately 1 – 1.5 gallons per 100 sq. ft.
- Spray requirements are 3,000 psi at 1.5 gallons per minute
- Tip size = 0.033 to 0.067, Fan = 6”  
(All values are approximate and may vary with ambient temperature and job conditions)

## **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 newly installed product.
- On existing roofs, inspect roof substrate condition. Blisters, buckles and raised edges should be cut out and repaired for a smooth surface.
- Check all flashings, edges, drains, valleys and vents for damage and repair as needed.
- If priming is required, use a very light coat of asphalt primer, or for best results use Mule-Hide 311 Asphalt Emulsion. Allow primer or emulsion to dry prior to application of coating.
- When applying over Asphalt Emulsion, coating may be applied when emulsion is dry enough to receive foot traffic (minimum of 24 hours in dry or hot weather conditions. In cool or damp weather drying will be slower, 2 – 7 days).
- Allow new built-up roof surfaces to weather a minimum of 30 days. If 30-days is un-acceptable, apply Mule-Hide 311 Asphalt Emulsion prior to application of coating (see above).
- 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. A low-speed power drill with paddle is strongly recommended. Mix completely to blend aluminum paste until uniform. To aid mixing, place pail upside down for a few minutes prior to mixing.
- May be applied by high pressure spray roller or brush application methods. For best results, spray and use proper equipment.
- Avoid over-application. Do not work coating excessively during application. Attempt to brush and roll in one direction. DO NOT HEAT CONTAINER. DO NOT THIN.
- Avoid foot traffic once applied. Average drying time is 1 to 4 hours to touch.
- Do not apply if there is a threat of inclement weather within 24 hours of application.

## **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.

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## **PRECAUTIONS (continued)**

- 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.

**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 24 months 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.
- 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.