

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

## PRODUCT DESCRIPTION

Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating provides premium, high- performance protection for asphalt-based roofs, concrete surfaces and most metal roof surfaces. Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating is easier to spread and provides greater coverage, though it weathers more rapidly. In addition, this formulation is non-destructive to asphalt based roofing. Though combustible, these products require no “red tag” labeling for fire hazard. **Not to be sold in VOC regulated areas where this product exceeds the maximum VOC limits.**

## BASIC USES

Mule-Hide #416 Standard Non-Fibered Aluminum Roof Coating is designed to apply over new or existing mineral surface cap sheet or asphalt built-up roofs and flashings, APP smooth or mineral surfaced APP or SBS modified bitumen membranes and flashings, metal roofs and metal surfaces and asphalt coated or primed masonry surfaces. Apply product only in areas with positive drainage.

## PHYSICAL PROPERTIES\*

<b>Appearance</b> liquid	<b>SETA Flash point</b> 105F	<b>Solids by Weight</b> 40% min
<b>Color</b> Black/Silver when mixed	<b>Reflectance</b> > 50%	<b>Specific Gravity @ 77F</b> 0.99
<b>Consistency @ 77F</b> Roller, brush or spray	<b>VOC (Max)</b> 500 g/l	<b>Sizes</b> 5 gal/18.9 L
<b>Coverage</b> 1 to 2 gal/100 sq.ft	<b>Weight per Gallon</b> 7.9-8.3 lbs	<b>Suspendability</b> Slightly settles

\* 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

Available in 5 gallon pails

## APPLICATION METHODS AND RECOMMENDATIONS

**Application Rate:** 1 - 2 gallons per 100 square feet (0.4 – 0.8 L/m<sup>2</sup>), varies with porosity and texture of surface to be coated.

**Surface Preparation:** All surfaces to be coated 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 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. Use Mule-Hide # 211 Plastic Cement for BUR repairs and follow label instructions. Use Mule-Hide #251 Premium Wet/Dry Elastomeric Flashing Cement for modified bitumen membrane repairs and follow label instructions. **IMPORTANT:** Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating must be mechanically mixed thoroughly before and during application.

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**Material Preparation:** To ensure uniform coating, stir well before application. A power drill with paddles is recommended. Mix to blend aluminum paste until dark streaks completely disappear. Do not thin.

**Installation Method:** Spray: A Graco 45.1 pump or equivalent is recommended. Consult equipment manufacturer for optimum psi, spray tip size, length of hose, and number of guns to achieve uniform coat. Brush: Apply smooth, heavy coat using parallel strokes for uniform coat. For maximum reflective surface DO NOT OVER BRUSH. Roller: Apply smooth, heavy coat, using parallel strokes for uniform coat.

**When to Apply:** Asphalt Emulsion: Coating may be applied as soon as the asphalt emulsion is dry enough to receive foot traffic. APP Modified Bitumen: Allow smooth surface APP modified bitumen to weather approximately 30 days prior to coating application to avoid asphalt bleed through. Waiting period may vary depending on brand of membrane. Built-up Roofs: Apply as soon as smooth surface asphalt built-up roof is ready to receive foot traffic. Uncoated concrete and masonry: Prime first with a very light coat of Mule-Hide #121 Asphalt Primer before application of aluminum coating. New plastic cement or solvent based asphalt coating: Allow surface to weather for at least 30 days prior to coating application.

**Temperature Range:** Apply only when temperatures are 45°F (7.2° C) and rising. Cold weather will cause product to stiffen, making application difficult. Store unopened container 24 hours at room temperature prior to application. Do not heat container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F (76° C).

**Storage/Handling & Fire Warning:** Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating is combustible and should always be kept away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not store at temperatures in excess of 100°F.

**Clean Up:** Keep containers covered when not in use. Clean equipment and over spray with kerosene, mineral spirits or petroleum naphtha. Clean hands with waterless hand cleaner. Dried material should be removed with mineral spirits or biodegradable turpentine solvent.

### **PRECAUTIONS AND WARNINGS**

#### **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. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Dispose of container and unused contents in accordance with Local, State and Federal regulations.

**KEEP OUT OF REACH OF CHILDREN! DO NOT ALLOW THIS PRODUCT TO FREEZE! DO NOT THIN!**

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**First Aid:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. **If swallowed**, do not induce vomiting. Get medical attention immediately.

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with Local, State and Federal regulations.

**WARNING:** This product contains detectable amounts of chemicals known to the State of California to cause cancer, or birth defects, or other reproductive harm. **Employers** should obtain a copy of the **Material Safety Data Sheet (MSDS)** from your supplier or directly from Mule-Hide at 800-786-1492 or the website at [www.mulehide.com](http://www.mulehide.com).

### CUSTOMER SERVICES

Contact Mule-Hide Products Co., Inc. at 800-786-1492.

### QUALITY STANDARDS AND APPROVALS

Mule-Hide #416 Standard Non-Fibrated Aluminum Roof Coating meets or exceeds the requirements of ASTM D 2824 Type I.

### COMPATIBILITY AND LIMITATIONS

Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar products. Will not prevent alligatoring of hot-mop asphalt roofing. Not recommended over extremely aged, dry and brittle roofing. May cause tabs of asphalt shingles to curl.

### DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate. 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 make nor does it 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 except that it conforms to Mule-Hide's physical properties. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury of 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 complaint or failure before repairs are made.

Form # PDS- A416

Date 03/01/2008

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