



Product Data Sheet

MULE-HIDE #401 PREMIUM FIBRATED ALUMINUM ROOF COATING

PRODUCT DESCRIPTION

Mule-Hide #401 Premium Fibrated Aluminum Roof Coating provides premium, high-performance protection for asphalt-based roofs. Mule-Hide #401 Premium Fibrated Aluminum Roof Coating is a heavy bodied formulation produced with 3 lbs. of aluminum pigment per gallon with special reinforcing fibers that “push” the aluminum flakes to the surface for long lasting reflectivity and greater durability. In addition, 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.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Test Value
Weight / gallon	ASTM D2939	7.8 – 8.3 lb.
Solids by Weight	ASTM D2824	>50%
Stormer – 100 Rev	ASTM D2824	15 – 90 sec.
Flash Point	PMCC	>105°F
VOC (gm/L)	Std method	<500

PACKAGING

4.7 gallon pail (17.79 Liters)
50 Gallon Drum

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.
- Includes special reinforcing fibers that ‘push’ the aluminum flakes to the surface for longer lasting reflectivity and greater durability.
- Offers excellent weathering characteristics and will not prematurely crack or dry out.
- Non-destructive to conventional asphalt based roofing membranes.
- Formula produced with 3lbs. of aluminum pigment per gallon for maximum reflectivity.

CODE APPROVALS/COMPLIANCE

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



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COVERAGE RATES

- Apply at the rate of 1-1½ gallons per 100 sq. ft. depending on ambient temperature, surface conditions and applicator/application technique.

INSTALLATION TEMPERATURE

- Best applied when ambient temperatures are 45°F and rising.
- Store product at roof 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.
- Do not use directly over wet or damp surfaces, directly over wood, or surfaces previously covered with coal tar based products.
- Not recommended for use over extremely aged, dry, and brittle roofing.
- Do not coat asphalt shingles.
- 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).
- NOT RECOMMENDED for use with thermoplastic (PVC, TPO) or thermoset (EPDM, Hypalon) 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 (please contact Mule-Hide for “spray grade” material), 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

- 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.



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COMBUSTIBLE LIQUID AND VAPOR - continued

- 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.

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.
- Store container at room temperature for 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 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 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 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 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.