

**SPECIFICATION**  
**MULE-HIDE A-SERIES METAL ROOF COATING SYSTEM**  
**RUSTPROOFING & WATERPROOFING**

This Mule-Hide System Specification provides information for the application of the Mule-Hide Acrylic Metal Roof Coating System to rustproof, waterproof, and finish metal roofs.

Included herein: Mule-Hide materials, handling, storage, application and safety information required for the proper application and completion of the roofing system described.

**SYSTEM DESCRIPTION**

The Mule-Hide Acrylic Metal Roof Coating System shall be comprised of the following:

**115 CLEANER**

Mule-Hide 115 Cleaner is used as a general purpose cleaner prior to the coating of metal roof decks with Mule-Hide "A-Series" Coatings Systems. All loose existing coatings, heavy rust, debris and fresh roof cement shall be removed prior to applying 115 cleaner. Power washing with Mule-Hide 115 Cleaner at full strength at a rate of 0.25 gallons per 100 square feet effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Rinse roof thoroughly with water. Mule-Hide 115 Cleaner will provide the required first step in the application of the total Mule-Hide Metal Roof Coating System.

Note: Excessively soiled or greasy surfaces may require additional cleaning or scrubbing with a brush.

**A-125 METAL ROOF PRIMER**

Mule-Hide A-125 Acrylic Metal Roof Primer ("A-125") is a modified acrylic primer exhibiting excellent adhesion and corrosion resistance. A-125 provides recoatability and durability in a single component primer.

**USES**

Mule-Hide A-125 may be applied over existing, properly prepared metal roof surfaces. The A-125 application temperature range is 40 °F to 100 °F with a dry time of 6 hours at 75 °F @ 50% relative humidity.

**A-125 COLOR & PACKAGING**

Color: dark yellow. Standard packaging: 5 gal pails and 55 gal drums

**A-125 TYPICAL PHYSICAL PROPERTIES**

Weight / Gallon	9.9 +/- 0.2 lbs.
Solids	
(% by weight)	46.5 +/- 3
(% by volume)	35.1 +/- 3
Viscosity - cps	3190 +/-1000
- KU	105 +/- 5
pH	8.5-9.3
Service Temperature Range	-45 °F to 200 °F
Application Temperature Range	40 °F to 100 °F

**A-200 FLASHING GRADE**

Mule-Hide A-200 Acrylic Flashing Grade ("A-200") sealant is a thixotropic acrylic flashing grade material.

**USES**

A-200 is formulated to provide a highly elastomeric acrylic material for flashing metal roof panel fasteners, side laps, end laps, roof penetrations, and other areas requiring a highly elastomeric flashing compound to seal metal roofs prior to finish coat application.

#### A-200 COLOR & PACKAGING

Standard color: off white. Standard packaging: 1 gallon or 5 gallon pails.

#### A-200 TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	11.5 +/- 1 lb.
Solids	
(% by weight)	70.0 +/- 3
(% by volume)	51.0 +/- 3
Viscosity - cps	40,000 +/- 5000
pH	>8.0
Service Temperature Range	-45 °F to 200 °F
Application Temperature Range	40 °F to 100 °F

#### A-300 FINISH

A-300 Finish ("A-300") is a single component, high quality acrylic elastomeric finish coat. A-300 is the final waterproofing component of the Mule-Hide Acrylic Metal Roof Coating System.

#### A-300 FINISH USES

A-300 provides the high quality acrylic elastomeric finish coat required for quality long term metal roof restoration systems. A-300 provides excellent reflectivity, elongation, aesthetics, and waterproofing.

#### A-300 COLOR & PACKAGING

A-300 standard color is bright white. Colors are available (minimum quantities required). Contact Mule-Hide for current color selection and availability. Packaging is in 5 gallon pails or 55 gallon drums.

#### A-300 TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	11.9 +/- 0.2 lbs.
Solids	
(% by weight)	71.0 +/- 3
(% by volume)	54.3 +/- 3
Viscosity - cps	16000 +/- 1500
- KU	125 +/- 6
pH	>9.0
Service Temperature Range	-45 °F to 200 °F
Application Temperature Range	40 °F to 100 °F

#### RUST PROOFING & WATERPROOFING METAL ROOFS

Prior to the application of any Mule-Hide Metal Roof Coating System, always read all pertinent use, storage, application and safety data.

#### **ALWAYS TEST FOR PROPER ADHESION**

Mule-Hide recommends a jobsite adhesion test be performed. If in doubt as to the compatibility of the coating and substrate, allow a minimum six day cure.

Always be sure the additional surface profile of 20% is included in material coverage calculations. This is to

assure the total quantity of products necessary to complete the project and does not change the application rate.

### **STORAGE & HANDLING**

All materials shall have proper identification & labels. All containers must have airtight unbroken seals or unopened containers.

All materials must be stored in a secure area to prevent theft, damage, or vandalism. Any containers without proper manufacturer's identification will not be acceptable. All materials at jobsite must have proper MSDS Sheets available at the project site. All materials are to be stored at not less than 45 °F.

**ALL A-SERIES COATINGS MUST BE PROTECTED FROM FREEZING AT ALL TIMES.**

### **PROTECTION & SAFETY**

Protection of all areas, skylights, HVAC units etc., must be provided by masking or covering to prevent over spray or accidental coating of areas not scheduled to be finished or coated. The contractor will be responsible for any material spills, spray drift, or over spray.

Mule-Hide recommends that applicators wear sun glasses when applying the finish coating in bright sun shine.

**CAUTION!! COATED AREAS BECOME EXTREMELY SLIPPERY WHEN WET.  
ALWAYS MAKE SURE ALL WORK ENVIRONMENTS COMPLY WITH OSHA STANDARDS.**

### **SURFACE PREPARATION OF METAL ROOFS**

All loose rust, debris and surface contaminants must be removed by pressure washing with a mild detergent and water solution at 2000 p.s.i. minimum. Power washing with Mule-Hide 115 Cleaner at 2000 p.s.i. at the rate of 0.25 gallons per 100 sq. ft. is recommended. All cleaning solutions shall be thoroughly rinsed from surface.

Chip off or wire brush any rust or scale that cannot be removed by pressure washing. All dirt, dust or other contamination shall be removed prior to application of the primer.

Before application of primer, all covering and masking of surfaces not to be coated must be completed. All silicone coatings or sealants that have previously been used for coating, repair of seams, flashings, or bolt heads, shall be removed prior to the application of Mule-Hide A-Series Metal Roof Coating Systems.

All loose fasteners must be retightened. Any fasteners to be replaced require spot priming of the metal surface with A-125 prior to fastener replacement.

Commencement of work by the contractor implies his approval of the deck surface.

### **APPLICATION**

Check weather conditions prior to start of work. Mule-Hide Acrylic Coatings require complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply if weather conditions will not permit complete cure before rain, dew or freezing temperatures.

For applications in higher temperatures (above 90 °F) Mule-Hide recommends application in multiple thin coats to prevent trapped moisture problems.

For proper spray equipment, always refer to the Mule-Hide Airless Spray Equipment Requirement Chart.

**ALWAYS TEST FOR PROPER ADHESION.** Mule-Hide recommends that all jobsite adhesion testing have a minimum 6 day cure time to ensure compatibility with an existing finish. All surfaces to be primed must be clean, dry and free of oil, grease or dirt. Various sound and tightly adhered existing coatings such as fibrated and non-fibrated aluminum roof coatings or existing acrylic coatings may not require the use of A-

125 primer. (For more information regarding the use of A-125 primer over existing coatings contact Mule-Hide Technical Services)

Before application, any loosely adhered coating must be removed and surfaces must be properly cleaned. All existing coatings must be checked for compatibility and proper adhesion. Mule-Hide A-125 Primer should be applied at a rate of 0.5 gallons per 100 square feet. Medium to heavy rusted areas may require two coats. After installation of A-125 primer there should be no visible rust. Applying the A-125 at coverage rates higher than 0.5 gal per 100 square feet in one coat can result in surface splitting due to trapped moisture.

Mule-Hide recommends a minimum of 12 hours cure time between coats or the product should be sufficiently dry that foot traffic will not damage the coating. Multiple coats should always be applied within 72 hours of each coat to minimize or prevent contamination that would require additional cleaning.

Mule-Hide A-200 Acrylic Flashing Grade Sealant shall then be used to encapsulate all fasteners, and seal all panel side laps, end laps and penetrations. Using a brushing motion perpendicular to the seam, force the A-200 between the metal surfaces. A 3" band of A-200 at a thickness of not less than 60 wet mils is then applied over the top of all seams and flashings. Failure to install the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 installed in one coat is 120 wet mils, installing A-200 thicker than 120 wet mils could result in surface splitting due to trapped moisture. If thicker build up of product is desired the A-200 should be applied in multiple coats.

Mule-Hide recommends a minimum finished application rate of 2 gallons per 100 square feet. For extended performance Mule-Hide A-300 Finish may be applied in two coats at a rate of 1.5 gal per 100 square feet, per coat for a final coverage rate of 3 gallons per 100 square feet. Do not apply the A-300 Finish at a coverage rate higher than 2 gal per 100 square feet per coat. Applying the A-300 at coverage rates higher than 2 gal per 100 square feet can result in surface splitting due to trapped moisture. When applying multiple coats, A-300 Finish should always be applied at a rate of 1.5 gallons per 100 square feet or less

Cool temperatures and high humidity retard cure, which can result in longer cure times between coats.

For applications in higher temperatures (above 90 °F) Mule-Hide recommends application in multiple thin coats to prevent trapped moisture problems.

### **INSPECTION**

After each application step, always inspect applied material to ensure proper application techniques and compliance with coverage rate minimums.

### **CLEAN UP**

Clean up can be made using a mild detergent and water solution while coating is still wet; Mule-Hide 115 cleaner is recommended. Thoroughly rinse all hoses and spray equipment at end of the day. Make sure all materials, debris, containers, etc. are removed from work area and properly disposed.

### **5 YEAR MATERIAL WARRANTY**

A-300 shall be applied at the finish rate of 2 gallon per 100 square foot

### **10 YEAR MATERIAL WARRANTY**

The application of all A-series products shall be installed to meet the same specifications as the 10 yr system requirements. However, no fee or inspection is required, and the installing contractor is not required to be a Mule-Hide Eligible Contractor.

### **10 YEAR SYSTEM WARRANTY**

A watertight warranty is available, when installed in compliance with Mule-Hide's published specification for application over an existing positive sloped metal roof system by a Mule-Hide Eligible Contractor. Substrate preparation and material application must be in accordance with Mule-Hide application recommendations and

procedures. Consult Mule-Hide for full information on warranted systems.

Mule-Hide A-300 shall be applied in two coats to achieve a minimum rate of 3 gallons per 100 square foot. Each coat shall be applied at a rate of not less than 1.5 gallons per 100 square foot.

A 10 yr system warranty is available to a building owner when a Mule-Hide Roof Coatings Systems Warranty Eligible Contractor in compliance with Mule-Hide Specifications successfully installs the A-series system. The Eligible Contractor must complete and submit a warranty application prior to the start of the project. All Mule-Hide labeled products shall be used 115 Cleaner, A-125 Primer, A-200 Flashing Grade and A-300 Finish. Upon notice of the completion of the project, the contractor shall contact Mule-Hide to schedule an inspection of the roof system. Upon confirmation of the completion of any punch lists generated during the inspection and payment of the warranty fee, a 10 year system warranty will be issued.

**NOTE: CONTACT MULE-HIDE FOR APPLICATION OVER OTHER SUBSTRATES**

**End of Section**