



# **ELASTOMERIC ACRYLIC COATINGS**

## **RESTORATION RETROFIT REPAIR**

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### **METAL ROOFS**

Industrial/Commercial  
Agricultural, Garage/Shed  
RV, Camper, Mobile Home/Office

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### **BUR & MOD BIT ROOFS**

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### **EPDM & HYPALON ROOFS**

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### **SPF (PUF) ROOFS**

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### **MASONRY WALLS**

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### **SKYLIGHTS**

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# **APPLICATION HANDBOOK**



*“The name trusted in roofing since 1906”*

## **Mule-Hide Elastomeric Acrylic Coatings Application Handbook**

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### **MATERIAL SAFETY DATA SHEETS:**

Available upon request or download at [www.mulehide.com](http://www.mulehide.com)

**TECHNICAL SUPPORT... Call 1-800-786-1492**

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Now that you've selected one of the best brands of Elastomeric Acrylic Coatings available today, please take the time to read through this application handbook carefully before beginning. The handbook is broken into sections that provide the basic steps for applying Mule-Hide Elastomeric Acrylic Coatings over various roofing substrates, skylights, and masonry walls.

## ABOUT MULE-HIDE

Mule-Hide Elastomeric Acrylic Coatings are an economical alternative to a costly reroof. Advances in polymer chemistry have resulted in elastomeric coatings that provide lasting restoration, retrofit, or repair.



This "liquid applied membrane" completely bonds to the surface as it dries; yet remains "elastomeric". It stretches as the substrate moves and then returns to its original shape without deformation.

Mule-Hide Elastomeric Coatings are versatile, easy to apply and repair, lightweight and watertight. Manufactured with strict quality control, you can count on quality that's consistent batch to batch.

Energy Efficient Roofs - Mule-Hide white A-300 Finish has been independently tested to EPA guidelines with results of initial solar reflectance values up to 86% and 3-year aged values up to 72%; plus emissivity values of 86.4%.



Reflectivity is the percentage of the sun's heat a roof keeps off a building, and emissivity is the percentage of heat a roof lets out of a building. Mule-Hide A-300 FINISH can reduce surface temperatures on metal roofs by as much as 50° F and interior temperatures by 15°. Mule-Hide is an ENERGY STAR® Partner and your business can reap the rewards of the excellent reflectivity of Mule-Hide Coatings.

Mule-Hide Products Co., Inc. manufactures products for professional roofing and coating applicators. Mule-Hide guarantees the quality of these products, and makes recommendations for their use and proper application procedures. Mule-Hide A-300, A-320, and A-350 FINISH meet or exceed the standard specification for liquid-applied acrylic coatings used in roofing – ASTM D6083. No responsibility, however, is implied or assumed by Mule-Hide for the design, positioning, application or functional interrelation of any building components. This is the responsibility of the architect, engineer, applicator and building owner.

# GENERAL INFORMATION

## Safety First

Mule-Hide Elastomeric Acrylic Coatings are water based virtually eliminating concerns about hazardous materials. Even the cleaners and primers are non-hazardous, with one exception - Mule-Hide A-151 EPDM ReSurface Agent™ (A-151), which has a high pH (11.0 – 12.0). A-151 as supplied is described as a hazardous product under OSHA hazard communication standards. **WEAR PROTECTIVE CLOTHING, GLOVES, AND CHEMICAL SPLASH GOGGLES when applying A-151.** As with all chemicals, use caution and good industrial hygiene when handling and disposing of empty A-151 containers and ensure proper drainage for A-151 and rinse water run-off from the roof. **Never discharge A-151 (nor the rinse water generated) directly into any open body of water.** Thorough rinsing sufficiently dilutes the A-151 so rinse water can be safely discharged onto the ground surface. If in doubt, always contact the local authorities prior to discharging to the soil surface. Refer to the A-151 MSDS for additional information or contact Mule-Hide Technical Department, 1-800-786-1492.

1. Material Safety Data Sheets (MSDS) are available from the local distributor or can be downloaded from our website [www.mulehide.com](http://www.mulehide.com).
2. Remember, these are professional, commercial grade products. Read labels prior to use.
3. Always make sure any ladders being used are securely tied off and take the time to be aware of the surrounding area when on a roof. When near the edge of a roof, always work facing the edge, not with your back to it. Make sure airless sprayer cords are positioned to minimize the chance of tripping over them.
4. Never point a power washer or airless sprayer gun in the direction of a person.
5. Follow OSHA recommendations. It is the responsibility of the applicator to comply with all local, state, federal building codes/regulations and OSHA safety regulations.
6. Do not use open flames to accelerate the drying of any products. These products must air dry on their own.
7. Never work alone.
8. Mule-Hide recommends that applicators wear UV-rated sunglasses when applying the finish coating in bright sunshine.

### CAUTION!

**COATED AREAS BECOME EXTREMELY SLIPPERY WHEN WET.**

**ALWAYS MAKE SURE ALL WORK ENVIRONMENTS COMPLY WITH OSHA STANDARDS.**

## Material Storage

1. Keep A-151 away from all ignition sources (i.e., fire, sparks, and flames). Do not store any products in areas where temperatures will fall below freezing (Not less than 45°F). **ACRYLIC PRODUCTS MUST BE PROTECTED FROM FREEZING AT ALL TIMES.**
2. Always store materials in their original containers as labeled by the manufacturer in a secure area to prevent theft, damage, or vandalism. Follow manufacturer's directions for proper protection of materials prior to and during installation. Any containers without proper manufacturer's identification are not acceptable. All materials at jobsite must have proper MSDS Sheets available at the site.
3. Read all container labels for additional information. Keep all containers tightly closed when not in use.
4. Dispose of materials and their containers in accordance with local, state, and federal government regulations.

## General Precautions

1. Make sure **all steps are followed for each product** as published in this handbook, including power washing with 115 CLEANER where stated.
2. Care should be taken when pressure washing so as not to entrap moisture in the existing roof system.
3. All **substrates to receive coatings must be clean, dry**, and free of dirt, oil, loose granules and any substance such as loose asphalt that will adversely affect adhesion or performance of the elastomeric acrylic coatings. A spud bar works well to pry substances off, especially early in the day when the asphalt, etc. is colder.
4. **Do not apply Mule-Hide A-300 over asphaltic substrates or repairs 5 years old or less. Use A-320, which is specially formulated for live asphaltic substrates (must age 90 days).**
5. Be careful when repairing and/or replacing fasteners on metal roofs. Make sure there are no wires, conduit, or piping that may be penetrated when working with fasteners.
6. Masking or covering to prevent over-spray or accidental coating is required to provide protection of skylights, HVAC units etc., and other areas not scheduled for coating. The applicator is responsible for any product spills, spray drift, or over spray.
7. If a roof has skylights or transits, use minimal pressure and a wide fan spray when cleaning with a power washer as most fiberglass panels and other non-load bearing roof components do not have the strength to withstand high pressure cleaning.
8. **Do not attempt to thin any of the products.** Keep the lids on when not actively in use. Make sure all products are stored in their original containers in a cool (but not where freezing could occur), dry area. **Do not let the coating products freeze.**

# PRE-APPLICATION INFORMATION

## Getting Started

### Tools & Equipment Needed:

Following is a list of power and/or hand tools and equipment that are typically needed to apply Mule-Hide Elastomeric Coatings:

1. Protective eyewear and gloves
2. Ladders and safety equipment (warning flags/lines, tie-offs, etc.)
3. Pressure washer & hoses
4. Stiff bristle broom and scrub brush (wire brush for metal roofs)
5. Over-size fasteners with neoprene washers
6. Ratchet with sockets to remove and replace fasteners
7. Airless sprayer – 3000 psi minimum, 2 gallons per minute minimum material output recommended
8. Hoses & spray tip kits for sprayer
9. Open-end wrenches to tighten guns & hoses
10. 3" short bristle paint brushes to apply A-200 FLASHING GRADE
11. Thick-napped paint covers and roller frames
12. Jiffy mixer or heavy duty drill and paddle to mix coatings prior to application
13. Electrical extension cords
14. Generator (optional)
15. Clean rags

### Important Tips

1. Refer to NRCA guidelines for tools and materials necessary to repair an existing roof prior to application of the coatings.
2. Remember to check with the local building inspector for any required permits or general requirements necessary to be in compliance with current local building codes.
3. **Clean equipment 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.

## Application Guidelines Disclaimer

(Details and Information subject to change):

1. When applying coatings over an existing roof under warranty, the building owner should check with existing roofing system manufacturer, as this coating application may void warranty.
2. In all cases, the existing roofing system must be in sound condition. Mule-Hide is NOT responsible for any defects in the existing roofing system.
3. The information herein should not be considered all-inclusive and should always be accompanied by good application practices. The applicator has sole responsibility for the quality of application of the coating system.
4. Mule-Hide requires proper surface preparation of the existing roofing system. Mule-Hide recommends repairs be made to correct any defects found in the existing roof system, in accordance with the published NRCA Repair Manual for Low-Slope Roofing Systems guidelines, prior to application of Mule-Hide Elastomeric Coatings.
5. Mule-Hide Coatings are NOT intended for use over graveled surfaces (Spudded Roofs are also NOT acceptable).
6. Mule-Hide recommends ADHESION TESTS prior to bidding the project to ensure adhesion and compatibility between the coating and the substrate. Mule-Hide also recommends finish coatings (A-300, A-320, A350) be applied in two (2)-coats. If the completed coverage rates exceed two (2) gallons per square (100 sf), Mule-Hide “requires” the coating be applied in two (2) coats. Product blisters may occur if primers and coatings are applied too thick.

# Warranty Program

## Types of Warranties Available

- 5 yr Limited Material
- 10 yr Limited Material
- 5 yr System Warranty (Metal Roof Coating Systems only)
- 10 yr System Warranty (Metal Roof Coating Systems only)

The Warranties available are dependent on the existing roof surface covered, the products used, and the quantity of the coatings applied.

## 5-YEAR & 10-YEAR LIMITED MATERIAL WARRANTY

To qualify, application of Mule-Hide Elastomeric Acrylic Coatings must meet the guidelines as published in this handbook. However, no fee or inspection is required, and the applicator is not required to be a Mule-Hide Warranty Eligible Applicator. To become a Warranty Eligible Applicator, contact your Mule-Hide Field Sales Representative.

## 5 & 10-YEAR LABOR & MATERIAL WARRANTY

Available to a commercial building owner when a Mule-Hide Warranty Eligible Applicator applies Mule-Hide Elastomeric Acrylic Coatings in compliance with the Mule-Hide guidelines published in this handbook.

1. Substrate preparation and material application must be in accordance with Mule-Hide application guidelines.
2. Warranty Eligible Applicator must complete and submit a warranty application prior to the start of the project.
3. All Mule-Hide labeled products must be used as per Mule-Hide guidelines.
4. Upon notice of the completion of the project, the applicator must contact Mule-Hide to schedule an inspection of the roof system.
5. Upon confirmation of the completion of any punch lists generated during the inspection and payment of the warranty fee, a labor and material warranty can be issued.

For Warranty Applications, contact Mule-Hide Warranty Department, 1-800-786-1492 or your local Mule-Hide Field Sales Representative. To locate a Sales Representative, visit [www.mulehide.com](http://www.mulehide.com).

## Mule-Hide Warranty Program Disclaimer

Mule-Hide Products Co. Inc. warrants that its products are of professional grade and free of any and all manufacturing defects, and that they will meet all stated physical properties as outlined in this handbook and Product Data Sheets. Mule-Hide does not warrant the existing roof system or structural deck or other components not supplied by Mule-Hide. Any damages to the coatings system caused by ponding or by the existing roofing system, including but not limited to, delamination, blistering, bleed-thru, deck deterioration or related failures are outside the scope of the Mule-Hide Warranty. Contact Mule-Hide Technical Department for additional information.

## Warranty Selection Chart

### METAL ROOF

#### 5-YEAR LIMITED MATERIAL WARRANTY

No Fee.

<b>Required Product</b>	<b>Coverage Rates (minimums)</b>
115 CLEANER	¼ gal. / 100 sf
A-125 PRIMER	½ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 100 lf of seams (3" wide X 60 wet mils) 1 gal. / 300-400 fasteners
A-300 FINISH	2 gal. / 100 sf (1 coat)

#### 5-YEAR LABOR & MATERIAL WARRANTY

Fee=4 cents per sf or \$300.00 minimum.

**Note: Must be applied by a Mule-Hide Warranty-Eligible Applicator**

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER	¼ gal. / 100 sf
A-125 PRIMER	½ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 100 lf of seams (3" wide X 60 wet mils) 1 gal. / 300-400 fasteners
A-300 FINISH	2 gal. / 100 sf (1 coat)

#### 10-YEAR LABOR & MATERIAL WARRANTY

Fee=7 cents per sf or \$500.00 minimum.

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER	¼ gal. / 100 sf
A-125 PRIMER	½ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 100 lf of seams (3" wide X 60 wet mils) 1 gal. / 300-400 fasteners
A-300 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

Note: All metal surfaces to receive the Mule-Hide Acrylic Coatings must be thoroughly cleaned and dry prior to application. Mule-Hide recommends cleaning with a pressure washer using Mule-Hide 115 CLEANER at a minimum application rate of ¼ gal. per 100 sf. Always thoroughly rinse with clean water and allow to dry completely.

### AGED SMOOTH BUR ROOFS (over 5 yrs old)

#### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-300 FINISH	2 gal. / 100 sf (1 coat)

#### **10 YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-300 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

### NEW SPF (PUF) TOP COAT

#### **10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-300 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

### EPDM RESTORATION SYSTEM™

#### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-151 ReSurface Agent	500 sf / gal.
A-300 FINISH	2 gal. / 100 sf (1 coat)

#### **10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. A-151 must be applied to a dry roof only.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-151 ReSurface Agent	500 sf / gal.
A-300 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

Note: Do NOT use 115 CLEANER with this system. A-151 must be applied to a dry roof only.

**AGED HYPALON ROOF(over 5 yrs old)**

**5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER	¼ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-300 FINISH	2 gal. / 100 sf (1 coat)

**10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER	¼ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-300 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

Note: Hypalon must be thoroughly cleaned and dry prior to application of Mule-Hide Acrylic Coatings.

**NEW SMOOTH BUR ROOF (5 yrs or less, must have 90-day cure)**

**5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	2 gal. / 100 sf (1 coat)

**NEW (5 yrs or less) SMOOTH BUR ROOF**

**10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

### **SMOOTH MOD BIT ROOF**

#### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	2 gal. / 100 sf (1 coat)

#### **10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	1 ½ gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>3 gal. / 100 sf</b>

### **GRANULATED MOD BIT ROOF or MINERAL SURFACE CAP SHEETS**

#### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	2 gal. / 100 sf (1 coat)

#### **10-YEAR LIMITED MATERIAL WARRANTY**

*No Fee. Power wash with water.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
A-200 FLASHING GRADE	1 gal. / 12 ½ sf
A-320 FINISH	2 gal. / 100 sf per coat (2 coats min.)
<b>Base &amp; Finish Coats Total</b>	<b>4 gal. / 100 sf</b>

## **MASONRY WALLS**

### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER [Note 1]	¼ gal. / 100 sf
A-200 FLASHING GRADE	1 gal. / 100 lf of cracks*
A-400-W MASONRY WALL C.	1 to 2 gal. / 100 sf (1st coat) 1 gal. / 100 sf (2nd coat)
Base & Finish Coats Total	2 gal. / 100 sf minimum

\*For cracks larger than 1/16" up to a maximum 1/8".

## **SKYLIGHTS**

### **5-YEAR LIMITED MATERIAL WARRANTY**

*No Fee.*

<b>Required Product</b>	<b>Coverage Rate (minimum)</b>
115 CLEANER [Note 2]	¼ gal. / 100 sf (or clean with water)
A-200 FLASHING GRADE	1 gal. / 100 lf
A-301 FINISH	2 gal. / 100 sf (1 coat)

Note 1: 115 CLEANER must be used on previously coated surfaces.

Note 2: When cleaning skylights, 115 CLEANER should always be used when possible. If the roof surface is to be coated, only use the 115 CLEANER if it can be thoroughly rinsed from the roof surface.

GENERAL COVERAGE RATE RECOMMENDATIONS: While Mule-Hide permits the acrylic finish coatings to be applied at a rate up to 2 gal. per 100 sf in one coat (pending warranty requirements), when encountering high temperatures and high humidity, Mule-Hide strongly recommends applying the finish coatings in multiple coats not exceeding 1.5 gals. per 100 sf per coat or not more than 50% of the required finished quantity per coat (whichever is the lesser).

Any questions regarding these applications, please call Mule-Hide Technical Department 1-800-786-1492.
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## Estimating Guidelines

1. Identify roof type to be coated, then review recommended product application guidelines and related Product Data Sheets.
2. Calculate quantities of each required product. Area to receive the coating is approximately \_\_\_\_ square feet as specified by the building owner. Refer to the coverage rates listed in the Warranty Selection Chart.
3. If any rooftop monitors, HVAC equipment and ductwork are to be coated (optional), these items must be considered as maintenance items only – they are not part of any warranted roof coating/system.
4. For HVAC penetrations, ridge vents, etc., calculate A-200 FLASHING GRADE at 50 to 75 linear ft per gal.
5. For Metal Roof Coating Systems:
  - Always add 20% to the total roof area to compensate for panel profile.
  - Determine the rusted areas requiring primer (Ten year labor & material warranty requires priming entire roof.). Additional primer may be required in heavily rusted areas.
  - Determine number of fasteners requiring actual replacement.
  - Field fastener coverage – calculate approximately 1 gal. of A-200 per 300-400 fastener heads.
  - Seams & End Lap Joints – calculate A-200 at 100 linear ft. per gal.
6. Contact Mule-Hide Technical Department for information relating to any additional system requirements prior to the start of the project.
7. Include warranty fees (when applicable).
8. Include appropriate tax & freight charges.
9. Application labor can only be determined by the coating applicator. Direct labor costs will vary according to:
  - Access to work area
  - Condition of existing roof
  - Application technique (brush, roller or spray)
  - Spray equipment capacity (gallons per minute)
  - Screening, masking requirements
  - Packaging (5 gal pails, 55 gal. drums, or 275 gal. totes)
  - Freight and handling
  - Weather conditions
  - Crew size and experience

## Inspecting the Roof

Inspecting the existing roof is critical to ensure watertight integrity after application of the coating system. During the inspection, check for cracks in the flashings and look for damaged roof areas that need to be repaired or replaced. For metal roofs, a critical checkpoint is to make sure fasteners are tight and not backing out or missing. All roof vents must be well-attached and prior coatings or repairs must not be peeling or chalking. The perimeter substrate must not be cracked or loose, and seams must not be open. Soil and vent pipes must not be broken and must be properly flashed.

1. Create an Inspection Summary Sheet for recording inspection findings and general details:
  - Measure and note the dimensions.
  - Note type of materials on existing roof – metal, BUR, MOD BIT, EPDM, Hypalon, Aluminum Coatings, etc.
  - Note age of roof and age of any existing materials used for repairs, etc.
  - Describe roof design – low-slope, metal panels, valleys, parapets, adjoining roofs, etc.
  - Determine and note surface conditions and leak areas including the cause and severity.
  - Determine size and materials needed to replace any wet damaged areas or materials needed for repairs.
  - Survey building owner to identify conditions that occur prior to leaks such as driving rain, high winds versus continual leakage.
  - Note newer penetrations or additions such as skylights, vents, etc.
  - Mule-Hide strongly recommends taking photos of the roof and any interior damage to the structure for documentation prior to the start of work.
2. Create a Checklist to ensure a thorough evaluation:

### General Conditions

Blisters

Buckling

Corrosion

Cracking

Debris

Discoloration

Fastener Seals

Fasteners to be replaced

Old coatings – condition

Open joints

Open seams

Physical damage

Ponding water – location,

size, depth

Punctures

Soft Areas

Fasteners – loose  
Moss or other vegetation

### **Flashings**

Corrosion  
Sagging  
Cracked Sealant  
Damaged Edges  
Deformed Metal  
Coping/Flashings  
Damaged Gravel Stop  
Loose/Missing Fasteners  
Loose/Missing Metal  
Sections  
Missing Covers  
Open End Joints

### **Parapets, Sidewalls**

Cracked Sealant  
Crickets  
Damaged Material  
Grouting  
Loose/Missing Metal  
Loose or Missing Caps  
Vertical Laps  
Wrinkles

### **Drains**

Debris free  
Down Spouts  
Flashings  
Gutters  
Strainers/Clamp Rings

### **Penetrations**

Access Panels  
Chimneys  
Conduit/Pipes  
Draw Bands  
Firewalls

Guy Wires  
HVAC  
Side Walls, Parapets  
Skylights  
Supports  
Vents/Breathers

### **Roof Type**

Metal  
Aluminum  
Galvanized  
Galvalume  
Painted/Coated Steel  
Aged Smooth BUR-over  
5 yrs (age\_\_\_)  
New SPF/PUF (# days  
cured\_\_\_)  
EPDM  
Aged Hypalon-over 5 yrs  
(age\_\_\_)  
New Smooth BUR-less  
than 5 yrs (# days cured\_\_\_)  
Smooth Mod Bit (age\_\_\_)  
Granulated Mod Bit Cap  
Sheet (age\_\_\_)  
Mineral Surface BUR Cap  
Sheet (age\_\_\_)  
Masonry Walls (age\_\_\_)  
Skylights (age\_\_\_)

If metal is painted/coated or if  
other roof type has existing  
coatings - if possible, determine  
the type of paint/coating

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Note: Mule-Hide Acrylic Coatings  
will NOT adhere to silicone  
coatings.

## Adhesion Test Instructions

Prior to bidding a project, Mule-Hide strongly recommends testing for adhesion to existing roof surfaces if the finish/coating is not known. Some metal finishes such as Kynar-500® and some coatings such as silicone are surfaces to which the acrylic products do not adhere well. When the surface material is not known, Mule-Hide recommends performing an adhesion test to determine if the acrylic products can adhere sufficiently to the cleaned existing surface. The product having direct contact should be the product used in the adhesion test. For example: If the surface is a painted metal and the primer is to be applied first, then the primer should be the product used to perform the adhesion test. If the intent is to just recoat the surface with one of the Mule-Hide FINISH coatings (A-300, A-320, A-350) then that coating should be used for the adhesion test. The rule of thumb is “when in doubt, perform an adhesion test.”

Note: Some new bare metal roof surfaces could have protective oil on the surface and may require an aggressive cleaner.

1. Clean a small area of the roof surface the same way that the complete roof will be cleaned.
2. Apply one coat of the coating product in an area approximately 2” wide by 5” long. If your system requires A-125 – test with A-125, otherwise test with A-300, A-320, or A-400-W.
3. Immediately embed a one (1) inch wide by six (6) inch long strip of cloth fabric into the new coating.
4. Allow about two (2) inches of the fabric to protrude out of the coating on one end.
5. After positioning the fabric, apply a second coat to seal over the fabric, but leave the protruding 2” uncoated.
6. Allow the coating to cure for at least 72 hrs for basic adhesion test before attempting to remove the fabric.
7. Peel the fabric straight up and observe the coating.
  - If the coating peels off the roof surface with little to no effort, it is doubtful that the coating will adhere properly.
  - If there is difficulty in lifting the fabric, or the fabric separates from the new coating (leaving the new coating bonded to the existing coating), the odds are in favor of the new coating adhering sufficiently to the existing surface.
  - Note: When in doubt as to the outcome of an adhesion test, contact Mule-Hide Technical Department to review test results.

## Recommended Airless Spray Equipment Guide

The following recommendations are the minimum requirements for each product.

### A-125 METAL ROOF PRIMER

- PUMP:** Airless Spray Rig with a minimum material output of .75 gal at 3000 psi.
- HOSES:** Maximum of 300' of high-pressure material hose. Hose ID's are available ½" to ¼". Whip hose length should be one (1) ID size smaller than rest of hose length.
- SPRAY GUN:** Airless Spray Gun. Gun must be equipped with swivel for handling ease. Gun must also be equipped with a Reverse-A-Clean nozzle.
- SPRAY TIPS:** Recommended orifice size is a .015" - .027" diameter wide-angle fan pattern. Ideal orifice size will vary with temperature. Always have spray tips at project site within the recommended orifice size range. Always use wet film gauge to determine the proper mil thickness has been applied.

### A-300, A-300-FF, A-320, A-350 FINISH, A-301 SKYLIGHT FINISH

- PUMP:** Airless Spray Rig with a minimum material output of 2 gal per minute at 3000 psi.
- HOSES:** Maximum of 300' of high-pressure material hose. Hose ID's are available ½" to ¼". Whip hose length should be one (1) ID size smaller than rest of hose length.
- SPRAY GUN:** Airless Spray Gun. Gun must be equipped with swivel for handling ease. Gun must also be equipped with a Reverse-A-Clean nozzle.
- SPRAY TIPS:** .025" - .035" orifice size is recommended, with a wide-angle fan pattern. Ideal orifice size will vary with the weather conditions. Always have spray tips at project site within the recommended orifice size range. Always use wet film gauge to determine the proper mil thickness has been applied.

First, it is important to make sure all equipment and hoses are properly cleaned and stored after each use. Also remember - **exchanging hoses between A-Series (Acrylic) and U-Series (Urethane) coatings IS NOT RECOMMENDED**. As a water-soluble material, any A-Series material or clean up residue can create in-line cure of U-Series material. The introduction of moisture combined with material line friction can create an accelerated in-line cure phenomenon with any U-Series material.

## **A-400-W MASONRY WALL COATING**

- PUMP:** Airless Spray Rig with a minimum material output of 1 gal per minute at 3000 psi.
- HOSES:** Maximum of 300' of high-pressure material hose. Hose ID's are available ½" to ¼". Whip hose length should be (1) ID size smaller than rest of hose length.
- SPRAY GUN:** Airless Spray Gun. Gun must be equipped with swivel for handling ease. Gun must also be equipped with a Reverse-A-Clean nozzle.
- SPRAY TIPS:** .025" - .035" orifice size is recommended, with a wide-angle fan pattern. Ideal orifice size will vary with the weather conditions. Always have spray tips at project site within the recommended orifice size range. Always use wet film gauge to determine the proper mil thickness has been applied.

## Percent Solids - Wet Film- Dry Film Chart

WET FILM (thickness) using "Mule-Hide Wet Film Gauge" will translate into APPROXIMATE DRY FILM (thickness) as shown below.

GALLONS PER 100 SQUARE FEET	WET FILM MILS	% VOLUME, SOLIDS	APPROXIMATE DRY FILM MILS
1	16	100	16.0
		90	14.4
		80	12.8
		70	11.2
		60	9.8
		50	8.0
		40	6.4
		30	4.8
		20	3.2
2	32	100	32.0
		90	28.8
		80	25.6
		70	22.4
		60	19.2
		50	16.0
		40	12.8
		30	9.6
		20	6.4
3	48	100	48.0
		90	43.2
		80	38.4
		70	33.6
		60	28.8
		50	24.0
		40	19.2
		30	14.4
		20	9.6
4	64	100	64.0
		90	57.6
		80	51.2
		70	44.8
		60	38.4
		50	32.0
		40	25.6
		30	19.2
		20	12.8

## Checking Mil Thickness

Mule-Hide offers a Wet Film Gauge that is easy to use and gauges applied coating thickness from 1 to 80 mils.

1. Pick one of the four sides of the gauge (selecting the side with the desired mil thickness) and place it vertically on the roof into the wet coating.
2. Lift up the gauge and look at the bottom notches. The notch showing wet coating that is also located just before the notch without wet coating will be the correct wet film thickness reading.
3. If all the notches have wet coating, wipe off the gauge and turn the gauge to the next higher mil side.
4. When finished, thoroughly wipe off the gauge, then store for your next wet film reading.

### COVERAGE RATES DISCLAIMER

Published coverage rates are based upon applying the products on clean, smooth, non-porous surfaces. Actual coverage rates may vary due to substrate conditions (deck profiles or surface texture), spillage, overspray, unused material left in opened containers and even the type of roller or brush used. To minimize this potential problem, an area should be laid out and coated at the recommended coverage rate using the intended equipment and checked when cured for actual dry film thickness (DFT).

## PRODUCT INFORMATION

### Coatings Product Identification Guide

Coating products are identified both alphabetically and numerically.

The alphabetical designation is determined by the generic type of the coating:

A - Acrylic

U - Polyurethane (Commonly called Urethane)

Note: Application Specifications, Product Data Sheets, and MSDS for Mule-Hide Urethane Products are available upon request.

The numerical identification specifies the product usage in actual application sequence:

100 - Cleaners, Agents, Primers

200 - Flashing grade sealants

300 - Finish coatings

400 - Masonry wall coatings

# Typical Physical Properties & Cured Film Properties

## 115 CLEANER

Basic cleaner for surface treatment only, that is fully rinsed off.

## A-125 METAL ROOF PRIMER

### 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

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

6 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Hardness, Shore A	ASTM D2240	70 +/- 5
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect

## A-151 ReSurface Agent

High pH cleaner (proprietary ingredients) for EPDM surface treatment only, that is fully rinsed off.

## A-200 FLASHING GRADE SEALANT

### 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

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

24 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	215 +/- 25 psi
Elongation	ASTM D412	500% +/- 50%
Hardness, Shore A	ASTM D2240	55 +/- 5
Low Temp. Flexibility	ASTMD412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect
Water Permeability	ASTM E96-80	0.003 +/- 0.001

## A-300 FINISH

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	11.9 +/- 0.2 lb.
Solids	
(% by weight)	71.0 +/- 3
(% by volume)	54.3 +/- 3
Viscosity	
cps	16,000 +/- 1500
pH	>9.0
Service Temperature Range	-45° F to 200° F
Application Temperature Range	40° F to 100° F

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

12 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	270 +/- 25 psi
Elongation	ASTM D412	325% +/- 50%
Hardness, Shore A	ASTM D2240	55 +/- 5
Low Temp. Flexibility	ASTMD412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect
Water Permeability	ASTM E96-80	0.003 +/- 0.001

A-300 is available in special order colors (minimum quantities required). Contact Mule-Hide for current color selection and availability. However white is recommended for maximum UV protection and energy savings.

## A-300-FF FAST FILM FINISH

### 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	>10.0
Service Temperature Range	-45° F to 200° F
Application Temperature Range	40° F to 100° F

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

12 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	270 +/- 25 psi
Elongation	ASTM D412	400% +/- 50%
Hardness, Shore A	ASTM D2240	55 +/- 5
Low Temp. Flexibility	ASTM D412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect
Water Permeability	ASTM E96-80	0.003 +/- 0.001

## A-301 SKYLIGHT FINISH

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	9.0 +/- 0.2 lbs.
Solids	
(% by weight)	41.0 +/- 1
(% by volume)	36.0 +/- 1
Viscosity	
cps	3400 +/-1000
pH	>8.0
Service Temperature Range	-45° F to 200° F
Application Temperature Range	40° F to 100° F

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

24 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	275 +/- 25 psi
Elongation	ASTM D412	400% +/- 50%
Hardness, Shore A	ASTM D2240	55 +/- 5
Low Temp. Flexibility	ASTM D412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect
Water Permeability	ASTM E96-80	0.003 +/- 0.001

## A-320 FINISH (for coating over asphaltic substrates)

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	11.7 +/- 0.4 lbs.
Solids	
(% by weight)	63.2 +/- 3
(% by volume)	51.0 +/- 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

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

12 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	125 +/- 25 psi
Elongation	ASTM D412	450% +/- 50%
Hardness, Shore A	ASTM D2240	50 +/- 5
Low Temp. Flexibility	ASTM D412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect

## A-350 FINISH (for coating over areas where ponded water occurs)

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	12. +/- 0.3 lbs.
Solids	
(% by weight)	67.8 +/- 3
(% by volume)	54.0 +/- 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

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

12 hours to Recoat

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	220 +/- 25 psi
Elongation	ASTM D412	285% +/- 50%
Hardness, Shore A	ASTM D2240	60 +/- 5
Low Temp. Flexibility	ASTM D412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect

## A-400-W MASONRY WALL COATING

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	12.3 +/- 0.3 lbs.
Solids	
(% by weight)	69.0 +/- 3
(% by volume)	53.0 +/- 3
Viscosity	
cps	16000 +/-1500
KU	100 +/- 6
pH	>8.5
Service Temperature Range	-30° F to 200° F
Application Temperature Range	40° F to 100° F

APPROXIMATE DRYING TIME (75° F @ 50% rel. hum.)

12 hours to Recoat

5-7 days – full cure

### CURED FILM PROPERTIES

Property	Test Method/Conditions	Result
Tensile Strength	ASTM D412	290 +/- 25 psi
Elongation	ASTM D412	325% +/- 50%
Hardness, Shore A	ASTM D2240	60 +/- 5
Low Temp. Flexibility	ASTM D412 - 0.5" mandrel	PASS
Weathering Resistance	Atlas Weatherometer/ 5000 hrs.	No effect
Water Permeability	ASTM E96-80	0.003 +/- 0.001

## LIQUI-THIX® (turns A-300 or A-400-W into Flashing Grade)

### TYPICAL PHYSICAL PROPERTIES

Weight / Gallon	8.6 +/- 0.2 lbs.
Solids	
(% by weight)	16.0 +/- 0.5
Viscosity	
cps	100 max.
KU	100 +/- 6
pH	3.7 +/- 0.3
Storage Temperature Range	40° F to 100° F

## SEAL-FAST® TAPE

### TYPICAL PHYSICAL PROPERTIES

Solids	100%
Elongation	100%
Chemical Resistance	Excellent to water, water vapors, ozone, and mild alcohol
Shrinkage	None

## FAST-CAPS®

### TYPICAL PHYSICAL PROPERTIES

Elongation	296%
Peel Strength	15 lbs per inch on stainless steel plate
Low Temperature Flexibility	-10° F 100,000 cycles with no signs of cracking or other failure
Tensile Strength	446 psi (with 80% elongation)
Thickness	45 mils total adhesive, foil, & reinforcing
Tear Strength	680 gr. MD 640 gr. CD ASTM D-1424

### Product 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 purpose or any warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Mule-Hide 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.

# PRODUCT APPLICATION GUIDELINES

## General Application Guidelines

1. Application may be by brush, roller, or airless sprayer:
  - a. Brush – suitable for small areas and flashings. Use a synthetic bristle paintbrush.
  - b. Roller – suitable for smaller areas. Use a medium to long nap roller cover.
  - c. Airless Spray Equipment – Refer to “Recommended Airless Spray Equipment Chart” in this handbook
2. The existing roof system must be in sound condition.
3. Long-term performance of any roofing system may be affected by periodic ponded water. Periodic ponded water is a condition where water remains on the roof for more than 48 hours after a rain. When possible, ponded water areas should be corrected to provide positive drainage prior to applying Mule-Hide coatings.
  - a. Areas where periodic ponded water occurs (Not exceeding 2 weeks) may be addressed by applying **A-350 FINISH**.
  - b. Areas where ponded water exceeds 2 weeks may require the installation of new drains to provide proper drainage or tapered insulation and new, compatible roofing materials to create positive drainage to the existing drain system. Questions regarding ponding conditions should be directed to Mule-Hide Technical Department, 1-800-786-1492.
4. Mule-Hide strongly recommends adhesions tests to be conducted on any unknown surfaces where adhesion may be questionable. It is the responsibility of the applicator to perform any adhesion tests prior to bidding the project. Refer to Adhesion and Compatibility Test Instructions in this handbook.

5. **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. If dew point limits application window, mops or leaf blowers can be used to dry roof prior to coating. Do not spray in windy conditions without taking appropriate precautions to eliminate overspray.
6. **Temperature of surfaces to be coated should be above 44°F and below 110°F.** Do not apply if there is a chance temperature may drop below 45 degrees for 48 hours after application.
7. **For applications in higher temperatures (above 90° F)** Mule-Hide recommends application in multiple, thin coats to prevent rapid skinning and trapped moisture problems.
8. **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.
9. Anticipate **longer cure time when working in weather below 50 degrees F** since cleaners and coatings will not dry as quickly as in ambient temperatures with the sun shining.
10. **Inspect applied product after each application step** to ensure proper application techniques and compliance with coverage rate minimums.
11. All roof, parapet, monitor and equipment surfaces to be coated must be thoroughly cleaned with a pressure washer.

#### **Elastomeric Acrylic Coatings System Application Disclaimer:**

When applying a Mule-Hide Metal Roof Coating Systems or EPDM Restoration System™, the primary products specified are to be supplied by Mule-Hide. All products not supplied by Mule-Hide, which are to be used in conjunction with these Mule-Hide systems, must be approved in writing by Mule-Hide prior to installation. Products not supplied by Mule-Hide will not be covered under a Mule-Hide warranty.

For a FREE Application Video  
Call 1-800-786-1492

## Application-Specific Guidelines

### Metal Roof Coating System

**Products Needed: 115, A-125, A-200, A-300**

#### **Step 1. Power Wash with 115 CLEANER & make repairs**

Mule-Hide 115 CLEANER is used as a general purpose cleaner prior to coating metal roofs with Mule-Hide Elastomeric Acrylic Coatings. All loose existing coatings, heavy rust, debris, and fresh roof cement must first be removed. Notify building owner to be prepared for the possibility of some water entering the building during the power washing process. Avoid spraying directly into seams or open penetrations.



- Power wash at 2000 psi with full strength 115 at a rate of 0.25 gallons per 100 sq. ft.
- Rinse roof thoroughly with water.

This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces, rust or scale may require additional cleaning or scrubbing with a wire brush.

**TIP - Replace stripped fasteners with the next larger size.**

**Repair existing roof system. Replace missing or loose fasteners and metal panels as needed. Schedule Step 2 within 2 weeks of Step 1 to prevent re-oxidation of rusty areas.**

**TIP - Tighten seams & end laps with self-tapping screws to restrict deflection to ¼" or less.**

## Step 2. A-125 METAL ROOF PRIMER

A-125 is a zinc-rich, dark yellow color for easy to see coverage. Improves adhesion of finish coating over steel, aluminum, and galvanized metal while it encapsulates rust and inhibits development of new rust. Apply by brush, roller, or airless sprayer.



A-125 provides recoatability and durability in a single component primer.

- Cover and mask surfaces not to be coated.
- Remove all silicone coatings or sealants that have previously been used for coating fasteners, flashing, or repair of seams.
- Re-tighten or replace loose fasteners. Replaced fasteners require spot priming of the metal surface with A-125 prior to fastener replacement.
- Foam inserts or backer rods are often in place along the ridge cap. If backer rod is present and in good condition, repairs may not be necessary. If inserts are deteriorated, remove and replace prior to coating. Note: If an open ridge cap is the primary ventilation system, consult with building owner about proper vents prior to performing any repair and/or coating work.
- Commencement of work by the applicator implies applicator's approval of the deck surface.
- Apply A-125 at a rate of 0.5 gallons per 100 square feet. Medium to heavy rusted areas may require additional coats. After application there should be no visible rust. (Applying A-125 at higher coverage rates in one coat can result in surface splitting and blistering due to trapped moisture.)

Note: Certain "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. (For more information regarding the use of A-125 primer over existing coatings contact Mule-Hide Technical Department 1-800-786-1492.)

## Step 3. A-200 FLASHING GRADE

A-200 is a thixotropic, acrylic, highly flexible sealant, formulated to seal seams, penetrations, flashings, metal roof fasteners, and other areas to fill voids in the substrate prior to finish coat application. Can be brushed, rolled or extruded. Standard white color.



- Apply A-200 to all fasteners, and seal all panel side laps, end laps and penetrations.
- Use a brushing motion perpendicular to the seam to force the A-200 between the metal surfaces.
- Apply a 3" band of A-200 at a thickness of not less than 60 wet mils over the top of all seams and flashings.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

#### Step 4. A-300 FINISH

ENERGY STAR® rated highly elastomeric coating. A-300 FINISH offers exceptional durability and UV stability to extend roof life. Attractive bright white reduces energy consumption. Apply by brush, roller, or airless sprayer. A-300 is a single component, professional grade acrylic finish coat.



#### A-300 coverage rates:

- For 5 yr Limited Material or 5 yr L&M Warranty:
  - o Finished coverage rate = 2 gallons per 100 square feet (min.).
  - o Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr L&M Warranty:
  - o Finished coverage rate = 3 gallons per 100 square feet (min.).
  - o Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.

Note: **Do not apply A-300 at a coverage rate higher than 2 gal per 100 square feet per coat** as it may result in surface splitting due to trapped moisture. When applying multiple coats, A-300 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. The second coat of A-300 should be applied perpendicular to the first coat.

For periodic ponded water areas, refer to "Product Application Guidelines" section in this handbook, (Page 30) #3 a. and #3 b.

## Coating Aged Smooth BUR (over 5 yrs old)

**Products Needed: A-200, A-300**

### **Step 1. Power Wash with WATER & Repair Existing Roof System**

All loose existing coatings, debris, and dirt must first be removed.

- Power wash at 2000 psi with WATER at a rate of 0.25 gallons per 100 sq. ft.



This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces may require additional cleaning or scrubbing with a stiff-bristle broom or scrub brush.

**Repair existing roof system per NRCA guidelines. Blisters, holes, splits or tears, and other damaged areas must be repaired prior to coating.** [Note 3]

Note 3: When performing roof repairs with asphalt based products, completed repairs should set a minimum 24 hours or longer. All new repairs must be top coated with A-320 or Mule-Hide Aluminum Coatings and allowed to cure/age a minimum 24 hours prior to coating the entire roof surface. Some staining over fresh asphalt may occur. If staining does occur, wait thirty days after completion and power wash areas and recoat with A-320.

### **Step 2. A-200 FLASHING GRADE**

A-200 is a thixotropic, acrylic, highly flexible sealant, formulated to seal, penetrations, flashings, and other areas. Can be brushed, rolled or extruded. Standard white color.



- Apply A-200 to seal all penetrations, flashings, laps on parapet walls, and to fill cracks or holes over 1/8".
- Apply A-200, using a brushing motion perpendicular to all seams to force the A-200 between seam edges.
- Apply a 3" band of A-200 at a thickness of not less than 60 wet mils over the top of all seams.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

### Step 3. A-300 FINISH

ENERGY STAR® rated highly elastomeric coating. A-300 FINISH offers exceptional durability and UV stability to extend roof life. Attractive bright white reduces energy consumption. Apply by brush, roller, or airless sprayer. A-300 is a single component, professional grade acrylic finish coat.



#### A-300 coverage rates:

- For 5 yr Limited Material Warranty:
  - o Finished coverage rate = 2 gallons per 100 square feet (min.).
  - o Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - o Finished coverage rate = 3 gallons per 100 square feet (min.).
  - o Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.

Note: **Do not apply A-300 at a coverage rate higher than 2 gal. per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-300 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. **The second coat of A-300 should be applied perpendicular to the first coat.**

For periodic ponded water areas, refer to “Product Application Guidelines” section in this handbook, (Page 30) #3 a. and #3 b.

## Coating New Spray Polyurethane Foam (SPF/PUF)

**Positive slope required.**

**Products Needed: A-300**

### **Step 1. A-300 FINISH**

ENERGY STAR® rated highly elastomeric coating. A-300 FINISH offers exceptional durability and UV stability to extend roof life. Attractive bright white reduces energy consumption. Apply by brush, roller, or airless sprayer. A-300 is a single component, professional grade acrylic finish coat.

#### **A-300 coverage rates:**

- For 5 yr Limited Material Warranty:
  - Finished coverage rate = 2 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - Finished coverage rate = 3 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.

**Note: Do not apply A-300 at a coverage rate higher than 2 gal. per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-300 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. **The second coat of A-300 should be applied perpendicular to the first coat.**

For periodic ponded water areas, refer to “Product Application Guidelines” section in this handbook, (Page 30) #3 a. and #3 b.

## EPDM Restoration System™

(Guidelines below are for Fully Adhered or Mechanically Attached Black EPDM Roofing Systems.)

**Products Needed: A-151, A-300**

### **Step 1. Apply A-151 EPDM ReSurface Agent™**

**Preparation:** Clear the existing EPDM roof of all debris. First, remove large branches, stones or any other large objects. Then use a leaf air blower or a stiff bristled broom to remove all loose dirt or other impediments.



Note: Residual amounts of dirt and/or contaminants will be removed with A-151 application and power rinsing with water.

Apply **A-151 EPDM ReSurface Agent™** full strength using an agricultural sprayer or airless spray equipment. Apply A-151 to a dry surface. (Do not apply to a wet surface as this will dilute the A-151 and will lessen the effectiveness of the product.)

1. Adjust the spray nozzle to a uniform spray pattern. A continuous spray pattern with a 3 to 4 foot arc works the best.
2. Allow the A-151 EPDM ReSurface Agent™ to stand for a minimum of 5 minutes.

**Caution:** The EPDM becomes very slippery after applying the A-151.

### **Step 2. Power Rinse with WATER and Repair Existing Roof System**

Power rinse, using a commercial power-washer, with a minimum pressure of 2000 psi. and a spray (fan) tip of not less than .040 inches. Hold the spray tip approximately 12 inches from the roof membrane. **Use care not to damage the EPDM membrane or seams by holding the spray tip too close to the membrane.** Begin cleaning at the highest point of the roof. Use a constant overlapping pattern and work down the roof.

1. When properly cleaned, the EPDM surface will become jet-black. If streaking is apparent, repeat the rinse step until the EPDM is totally clean and black.
2. Allow the roof to dry completely after rinsing and before applying Mule-Hide A-300 FINISH.
3. Smaller roofs can be cleaned all at once. For larger projects, section off the roof to complete the cleaning process and finish coating. Always take care so as not to damage the roofing membrane or any of its components.

**Clean up:** Thoroughly rinse out the sprayer and empty containers using clear water. Always follow good safety practices when on the roof and when disposing of the empty A-151 containers.

**Repair EPDM using compatible products prior to coating. Including tightening or re-securing all terminations, caulk termination bars, and flashings.**

TIP - Remove & reinstall fasteners that are backed out or tented. Relocate fasteners no more than 6" from original location.
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### Step 3. A-300 FINISH

ENERGY STAR® rated highly elastomeric coating. A-300 FINISH offers exceptional durability and UV stability to extend roof life. Attractive bright white reduces energy consumption. Apply by

brush, roller, or airless sprayer. A-300 is a single component, professional grade acrylic finish coat.



#### A-300 coverage rates:

- For 5 yr Limited Material Warranty:
  - Finished coverage rate = 2 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - Finished coverage rate = 3 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.

Note: **Do not apply A-300 at a coverage rate higher than 2 gal per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-300 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. The **second coat of A-300 should be applied perpendicular to the first coat.**

For periodic ponded water areas, refer to “Product Application Guidelines” section in this handbook, (Page 30) #3 a. and #3 b.

**Health and Safety Precautions:** Mule-Hide A-151 EPDM ReSurface Agent™ has a high pH (11.0 – 12.0). **WEAR CHEMICAL SPLASH GOGGLES when applying A-151.** As with all chemicals, use caution and good industrial hygiene when handling and disposing of empty A-151 containers and ensure proper drainage for A-151 and rinse water run-off from the roof. **Never discharge A-151 (nor the rinse water generated) directly into any open body of water.** The diluted A-151 rinse water can be safely discharged onto the ground surface. If in doubt, always contact the local authorities prior to discharging to the soil surface. Refer to the A-151 MSDS for additional information or contact Mule-Hide Special Solutions Support, 1-800-786-1492.

### **Coating Aged Hypalon (over 5 yrs old)**

Guidelines are for Fully Adhered or Mechanically Attached Roofing Systems. Prior to cleaning roof, all field seams and flashings must be checked to confirm all welds are tight. All open seams/flashings should be marked for repairs after proper cleaning.

**Products Needed: 115, A-200, A-300**

#### **Step 1. Power Wash with 115 CLEANER & make repairs**

Mule-Hide 115 CLEANER is used as a general purpose cleaner prior to coating Hypalon with Mule-Hide A-300 FINISH. All loose existing coatings, debris, and fresh roof cement must first be removed.

- Power wash at 2000 psi with full strength 115 at a rate of 0.25 gallons per 100 sq. ft.
- Rinse roof thoroughly with water.

This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces may require additional cleaning or scrubbing with a stiff bristle broom or scrub brush.

**Repair damages, open seams and flashings using Hypalon compatible products prior to coating. Including tightening or re-securing all terminations, caulk termination bars, and flashings. All repairs must be completed and the roof watertight prior to coating.**

<p>TIP - Remove &amp; reinstall fasteners that are backed out or tented. Relocate fasteners no more than 6" from original location.</p>
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#### **Step 2. A-200 FLASHING GRADE**

A-200 is a thixotropic, acrylic, highly flexible sealant, formulated to seal penetrations, flashings, and other areas. Can be brushed, rolled or extruded. Standard white color.

- Apply a 3" band of A-200 at a thickness of not less than 60 wet mils.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

### Step 3. A-300 FINISH

ENERGY STAR® rated highly elastomeric coating. A-300 FINISH (A-300) offers exceptional durability and UV stability to extend roof life. Attractive bright white reduces energy consumption. Apply by brush, roller, or airless sprayer. A-300 is a single component, professional grade acrylic finish coat.

#### A-300 coverage rates:

- For 5 yr Limited Material Warranty:
  - o Finished coverage rate = 2 gallons per 100 square feet (min.).
  - o Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - o Finished coverage rate = 3 gallons per 100 square feet (min.).
  - o Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat

Note: **Do not apply A-300 at a coverage rate higher than 2 gal per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-300 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. **The second coat of A-300 should be applied perpendicular to the first coat.**

For periodic ponded water areas, refer to “Product Application Guidelines” section in this handbook, (Page 30) #3 a. and #3 b.

## Coating the following Asphaltic Substrates

**New Smooth BUR (5 yrs or less, must age 90 days)**

**Smooth Modified Bitumen**

**Granulated Modified Bitumen Cap Sheet**

**Mineral Surface BUR Cap Sheet**

**Products Needed: A-200, A-320**

Note: If these surfaces have been previously coated with an unknown coating, an adhesion test should have been performed prior to bidding the project.

### **Step 1. Power Wash with WATER & Repair Existing Roof System**

All loose existing coatings, debris, must first be removed. This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces may require additional cleaning or scrubbing with a stiff-bristle broom or scrub brush. Use care to prevent damage to the roof surface while power washing.

**Repair existing roof system per NRCA guidelines. Blisters, holes, splits or tears, and other damaged areas must be repaired prior to coating.** [Note 3]

Note 3: When performing roof repairs with asphalt based products, completed repairs should set a minimum 24 hours or longer. All new repairs must be top coated with A-320 or Mule-Hide Aluminum Coatings and allowed to cure/age a minimum 24 hours prior to coating the entire roof surface. Some staining over fresh asphalt may occur. If staining does occur, wait thirty days after completion and power wash areas and recoat with A-320.

### **Step 2. A-200 FLASHING GRADE**

A-200 is a thixotropic, acrylic, highly flexible sealant. A-200 is formulated to seal, penetrations, flashings, and other areas. Can be brushed, rolled or extruded. Standard white color.



- Apply A-200 to seal all penetrations, flashings, laps on parapet walls, and to fill cracks or holes over 1/8".
- Apply a 3" band of A-200 at a thickness of not less than 60 wet mils over the top of all seams.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

### **Step 3. A-320 FINISH (For coating over asphaltic substrates.)**

A-320 is a white, non-yellowing, acrylic based elastomeric coating. It exhibits exceptional exterior durability and UV stability, superior flexibility in low temperatures, and high reflectivity. A-320 will maintain its cool, white, protective seal over asphaltic substrates that would stain and darken conventional white, acrylic coatings. Attractive bright white reduces energy consumption. Apply by brush, roller, or airless sprayer. A-320 is a single component, professional grade acrylic finish coat.



#### **A-320 coverage rates:**

##### **Over New Smooth BUR (5 yrs or less, must age 90 days min.)**

##### **Over Smooth Mod Bit:**

- For 5 yr Limited Material Warranty:
  - Finished coverage rate = 2 gallons per 100 square feet (min.).
  - Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - Finished coverage rate = 3 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.

##### **Over Granulated Mod Bit Cap Sheet or Mineral Surface BUR Cap Sheet:**

- For 5 yr Limited Material Warranty:
  - Finished coverage rate = 3 gallons per 100 square feet (min.).
  - Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.
- For 10 yr Limited Material Warranty:
  - Finished coverage rate = 4 gallons per 100 square feet (min.).

- o Mule-Hide requires 2 coats, applied at a rate of 1.5 gal. per square feet per coat.
- o Mule-Hide requires 3rd coat, applied at a rate of 1 gal. per square feet per coat.

Note: **Do not apply A-320 at a coverage rate higher than 2 gal per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-320 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. **The second coat of A-320 should be applied perpendicular to the first coat.**

For periodic ponded water areas, refer to “Product Application Guidelines” section in this handbook, (Page 30) #3 a. and #3 b.

## **Coating Masonry Walls**

**Products Needed: 115, A-200, A-400-W**

### **Step 1. Power Wash with 115 CLEANER & make repairs**

Used as a general purpose cleaner prior to coating masonry surfaces with Mule-Hide Elastomeric Acrylic Coatings. All loose existing coatings, debris, and dirt must first be removed. Note: New masonry must be fully cured (30 days or more).



- Sand and rough-up old enamel and gloss paints to ensure new coating adhesion.
- Power wash at 2000 psi with full strength 115 at a rate of 0.25 gallons per 100 sq. ft.
- Rinse roof thoroughly with water.

This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces scale may require additional cleaning or scrubbing with a stiff-bristle scrub brush.

**Repair all cracks larger than 1/8” wide and broken blocks according to masonry industry standard repair procedures prior to coating. If using patching compounds, follow the product manufacturer’s guidelines for proper cure time required prior to coating.**

## Step 2. A-200 FLASHING GRADE

A-200 is a thixotropic, acrylic, highly flexible sealant, formulated to seal cracks and other areas to fill voids in the masonry surface prior to finish coat application. Can be brushed, rolled or extruded. Standard white color.

- Check dryness of masonry prior to applying coatings. Test by using a 4 mil clear, plastic sheet and covering an 18 sq. inch area by sealing all edges with duct tape. After 24 hours, if the covered area is darker than the exposed area, or moisture forms on the plastic sheet, the concrete is too wet to coat. **New concrete must be cured a minimum of 30 days.**
- Apply A-200 to fill all cracks larger than 1/16" up to a maximum width of 1/8".
- Feather all edges.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

## Step 3. A-400-W MASONRY WALL COATING

A-400-W is formulated to provide a flexible, waterproofing, liquid applied membrane for exterior masonry surfaces. This highly elastomeric coating offers exceptional durability and UV stability. Attractive light colors reduce energy consumption. Apply by brush, roller, or airless sprayer. A-400-W is a single component, professional grade acrylic coating. Available in five colors – white, beige, tan, light grey, dark grey.



### A-400-W coverage rates:

- For 5 yr Limited Material Warranty:
  - o Finished coverage rate = 2 gallons per 100 square feet (min.).
  - o Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.

Note: **Do not apply A-400-W at a coverage rate higher than 2 gal per 100 square feet per coat** as it can result in runs or sags and surface splitting due to trapped moisture. When applying multiple coats, A-400-W should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. The **second coat of A-400-W should be applied perpendicular to the first coat** after a minimum of 12 hours but before 72 hours.

## Coating Skylights

**Products Needed: 115, A-200, A-301**

### **Step 1. Power Wash with 115 CLEANER & make repairs**

Mule-Hide 115 CLEANER is used as a general purpose cleaner prior to coating skylights with Mule-Hide Elastomeric Acrylic Coatings. All loose existing coatings, debris, and fresh roof cement must first be removed.



- Power wash at 2000 psi with full strength 115 at a rate of 0.25 gallons per 100 sq. ft.
- Rinse roof thoroughly with water.

This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled/greasy surfaces, rust or scale may require additional cleaning or scrubbing with a stiff-bristle scrub brush.

**Complete any major repairs to skylights using compatible products according to skylight manufacturer recommendations prior to coating.**

### **Step 2. A-200 FLASHING GRADE**

A-200 is a thixotropic, acrylic, highly flexible sealant, ideal to seal around skylights or transits prior to A-301 application. Can be brushed, rolled or extruded. Standard white color.

- Apply A-200 to the perimeter of each skylight to seal all edges.
- Use a brushing motion perpendicular to the edges to force the A-200 between the edges.
- Apply a heavy bead of A-200 over each fastener head.
- Apply a 3" band of A-200 at a thickness of not less than 60 wet mils over the top of all seams.

Note: Failure to apply the minimum thickness of 60 wet mils can result in poor performance of the product. The maximum thickness of A-200 applied in one coat is 120 wet mils. Applying 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.

### Step 3. A-301 SKYLIGHT FINISH

A-301 coats weathered skylight panels. Milky white in pail, it dries to a translucent, flexible film for a water-tight seal that allows light to pass through. A-301 offers exceptional durability and UV stability. Apply by brush, roller, or airless sprayer. A-



301 is a single component, professional grade acrylic coating.

#### A-301 coverage rates:

- For 5 yr Limited Material Warranty:
  - o Finished coverage rate = 2 gallons per 100 square feet (min.).
  - o Mule-Hide recommends 2 coats, applied at a rate of 1 gal. per square feet per coat.

Note: **Do not apply A-301 at a coverage rate higher than 2 gal per 100 square feet per coat** as it can result in surface splitting due to trapped moisture. When applying multiple coats, A-301 should always be applied at a rate of 1 to 1.5 gallons per 100 square feet. The **second coat of A-301 should be applied perpendicular to the first coat.**

**Do NOT coat a skylight or other translucent panel with the same FINISH coating as applied to the roof as this will make the panel difficult to see. These panels will not support rooftop traffic as they are not load-bearing.**

## SPECIAL CONDITIONS

**Potential light rainfall shortly after application? – Use A-300-FF, Fast Film Finish** instead of A-300. Apply with the same application procedures as A-300 with one exception – apply by Airless Sprayer only. Its unique formulation is designed to skin over in just ten to fifteen minutes to decrease chances of an unexpected, light rainfall washing the coating off the roof.

**Ponded water areas? - A-350 FINISH** is a durable, white, non-swelling, water resistant, finish that far exceeds other conventional acrylic coatings in coating areas where periodic ponded water occurs (for more than 48 hours, not exceeding 2 weeks). It can be used as a topcoat over A-300, A-300-FF, or A-320 Finish.

**LIQUI-THIX®** Turns A-300 FINISH into A-200 FLASHING GRADE in under 60 seconds to eliminate lost time at job site waiting for additional materials.

## MAKING REPAIRS ON MULE-HIDE COATINGS

**Repairs are easy.** Simply clean the area to be coated, then apply new product. Mule-Hide Acrylic Coatings are water based which means no expensive solvents to thin product or clean equipment.

## COLD WEATHER SOLUTIONS

**SEAL-FAST® TAPE** makes sealing leaking ductwork in cold weather situations easy. Instant watertight seal prevents leaks and rust. This Tedlar faced butyl tape will not crack or become brittle in cold temperatures and is compatible with Mule-Hide Acrylic Coatings. First power wash with **115 CLEANER**, repair holes, damaged areas, and remove old caulk. Then center **SEAL-FAST TAPE** over area, peel release paper, set the tape over problem area, and roll securely into place with a 2" steel or nylon roller.

**FAST CAPS®** seal loose or missing fastener areas on metal roofs quickly and easily in cold weather. Instant watertight seal prevents leaks, rust, and fastener movement. These aluminum-faced conforming disks consist of a heavy modified asphalt base, reinforced with high-density polymer films for tear strength. First power wash with **115 CLEANER**, repair holes, damaged areas, and remove old caulk. Peel release paper and center **FAST-CAP** over problem fastener. Complete application by centering securing tool (included with each package), and push/twist to create a tight seal.

# IMPORTANT NOTES

(Details and Information subject to change):

When applying coatings over an existing roof under warranty, the building owner should check with existing roofing system manufacturer, as this coating application may void warranty. In all cases, the existing roofing system must be in sound condition. Mule-Hide is NOT responsible for any defects in the existing roofing system. The information herein should not be considered all-inclusive and should always be accompanied by good application practices. The applicator has sole responsibility for the quality of application of the coating system. Mule-Hide requires proper surface preparation of the existing roofing system. To repair blisters, splits, and other surface defects, Mule-Hide recommends that they be repaired in accordance with the published NRCA Repair Manual for Low-Slope Roofing Systems guidelines prior to application of Mule-Hide Elastomeric Coatings.

Energy savings from the installation of an ENERGY STAR® Roof Product are climate specific and may vary significantly from building to building. The greatest savings will occur in buildings located in hot and sunny climates that have a high roof surface to building volume ratio, and lower levels of attic insulation. For more information about the energy savings you can get from installing an ENERGY STAR® Roof Product on your building contact your roof product manufacturer, roofing applicator, or call 1-888-STAR-YES (1-888-782-7937)

## Questions?

**Give us a call at 1-800-786-1492**

**Ask to speak with the Mule-Hide Technical Department.**

## CONTRACTOR NOTES:



[www.mulehide.com](http://www.mulehide.com)

**Special Solutions Support**  
**1-800-786-1492**

The information herein is based upon data and knowledge considered to be true and accurate and is provided for the applicator's consideration, investigation and verification. However, Mule-Hide Products Co., Inc., does not warrant any results to be obtained. Statements concerning possible use of Mule-Hide products are made without knowledge of your particular roof and/or coatings project and such an application may not be fit for your particular purpose. MULE-HIDE DISCLAIMS ALL WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, except written warranties attached to Mule-Hide products and written warranties signed by an officer of Mule-Hide.

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