



# Product Data Sheet

## A-320 Finish

### PRODUCT DESCRIPTION

Rev Mar 2023

A-320 FINISH ("A-320") by Mule-Hide is a high tensile, superior grade water-based elastomeric coating. This proprietary formulation using 100% acrylic resins cures to form a seamless fluid applied roof membrane. A-320 Finish can be used as either a base or surface coat. This product has excellent adhesion to sprayed polyurethane foam (SPF) and a variety of other construction and roofing substrates and can exceed the expected tensile strength of typical acrylic roof coatings. This product provides excellent durability and dirt pickup resistance.



### BASIC USES

- Approved over smooth and granulated BUR, SPF, most metal roofs, modified bitumen membranes, and single-ply membranes. (May require a primer depending on age and condition.) A substrate adhesion test is recommended prior to product application.

### FEATURES AND BENEFITS

- A-320 Finish has excellent exterior durability on roof exposure
- Better hail resistance than typical elastomeric roof coatings
- Flexible at low temperatures
- Excellent elongation at temperatures down to -15°F
- Excellent dirt pickup resistance
- UV resistance
- Excellent toughness to withstand foot traffic and routine rooftop maintenance activities
- High solar reflectivity, reducing roof surface temperatures and helping to prolong roof life and reduce energy costs
- Low toxicity and odor
- Easy application and simple cleanup with water

### TYPICAL PHYSICAL PROPERTIES

Typical Physical Properties	Test Method	Typical Value
Viscosity (cP)	ASTM D2196	28,000–58,000
Solids Volume (%)	ASTM D2697	52 ± 2
Solids Weight (%)	ASTM D1644	62 ± 2
Elongation (%)	ASTM D2370	650 ± 50
Tensile Strength (psi)	ASTM D2370	570 ± 50
Hardness (Shore A)	ASTM D2240	72 ± 5
Permeance (perms)	ASTM D1653	6 ± 3
Water Swell (%)	ASTM D471	12 ± 1
Accelerated Weathering @ 1000 hr (pass/fail)	ASTM D4798	pass
Adhesion (psi)	ASTM C794 / ASTM D903	pass
Fungi Resistance (pass/fail)	ASTM G21	pass
Tear Resistance (lbf/in)	ASTM D624	120 ± 5
Low Temperature Flexibility -26°C (1/2" Mandrel) (pass/fail)	ASTM D522	pass
VOC (gm/L)	Calculated	< 50

\*Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

### COLOR

Standard colors is White.

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### PACKAGING

.9-Gallon, 4.75-gallon pails, 50-gallon drum, and 275-gallon totes.

### COVERAGE RATES

Coverage rates vary by substrate

### APPLICATION

#### **APPLICATION EQUIPMENT**

Application may be by brush, roller, or airless spray.

1. Brush: Suitable for small areas and flashings. Use a synthetic bristle paint brush.
2. Roller: Recommended when coating small areas. Use a medium (1/2") or a long (1.0") napped roller.
3. Airless Spray Equipment: The following spray equipment is recommended by Mule-Hide.
  - A-320 Finish can be applied by conventional airless spray equipment designed for the purposes of field application of fluids, paints, and coatings. The following minimums are recommended:
    - **Pump:** 1 gal/min output; 2,000 psi
    - **Gun/Tip:** Airless handgun. Reversible tip with orifice sizes ranging from .027–.039
    - **Hose:** Minimum inside diameter of high-pressure nylon hose of 3/8". Refer to equipment manufacturer product guidelines.

#### **SURFACE PREPARATION**

- All surfaces to receive coating must be clean, dry, and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products. Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.
- Visually inspect existing roof systems for conditions that may adversely affect adhesion of performance of newly installed products. Repair any visible deficiencies such as splitting, blistering, and buckling with A-200 Flashing Grade and Polyester Reinforced Fabric.
- Repair metal and non-metal flashings, edges, drains, valleys, and through-roof penetrations.
- Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar-based products or Kynar® finishes.
- Any substrate where there is a question related to the ability of a Mule-Hide coating to properly adhere should have an adhesion test performed following the procedures in Mule-Hide Technical Bulletin 07-1803.

#### **APPLICATION**

- Stir well prior to application. To field tint this product, please use a water-based, exterior-grade colorant.
- Apply with high pressure sprayer for best appearance and coverage, however the product may be applied by roller or brush applications.
- Apply at a maximum of 24 wet mils (1.5 gallons per 100 square feet) per coat. Typical application conditions require two coats at 24 wet mils per coat. To minimize potential voids or pinholes in coating application, apply second coat perpendicular to the first.
- Allow coating to dry overnight prior to applying second coat.
- Apply only when ambient temperatures are 50°F and rising. Cold weather could result in uneven application and improper curing of product. Do not apply if there is a threat of inclement weather within 24 hours of application.
- Do not thin product. Do not heat outside of container. Do not apply at temperatures greater than 120°F.
- Prior to using this product on new cap sheets (smooth or granulated), it is recommended to wait 30 days for weathering.
- Check weather conditions prior to start of work. Acrylic Coatings require the 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.

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- Cool temperatures and high humidity are factors that may delay curing, which can result in longer cure times between coats.

### **STORAGE AND CLEANING**

- Shelf life is 18 months if stored in original unopened containers.
- All containers should be sealed when not in use.
- **Keep from freezing.**
- Store between 40°F and 100°F.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Clean hands with waterless hand cleaner.
- Application tools and equipment can be cleaned with lukewarm water and soap, followed by a rinse of isopropanol, acetone, or Simple Green® or 115 cleaner and thoroughly rinsed. Recirculate through lines and gun until residual coating is removed.
- DO NOT USE MINERAL SPIRITS, XYLENE, TOLUENE, OR VMP & NAPHTHA SOLVENTS.

**For Professional Use Only** - Keep out of the reach of children.

### **MANUFACTURING FACILITIES**

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

### **RADIATIVE PROPERTIES**

DESCRIPTION	INITIAL VALUE	RAPID RATINGS
CRRC Rated Product ID#: 0670-0003		
CRRC solar reflectance (smooth)	0.86	0.66
CRRC initial thermal emittance (smooth)	0.89	0.90
CRRC solar reflectance (rough)	Not Rated	Not Rated
CRRC initial thermal emittance (rough)	Not Rated	Not Rated
Solar Reflectance Index (SRI)	108	80
*The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit Coolroofs.org for important information and disclaimers about CRRC rating requirements and limitations. For purposes of CRRC rating, a rough surface is a surface that is equally coarse to coarser than a new (i.e. unweathered) #11 granulated modified bitumen sheet. The Cool Roof Rating Council (CRRC) does not specify minimums for reflectance or emittance but they do require specific protocols for testing and reporting. Cleaning of the aged roof surface is <b>not</b> permitted for determination of radiative properties after 3 years.		

### **PROTECTION & SAFETY**

Mule-Hide maintains Material Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's 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](http://www.mulehide.com) for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

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