

MULE-HIDE # 311 NON-FIBRATED EMUSLION ROOF COATING

PRODUCT DESCRIPTION

Mule-Hide #311 Non-Fibrated Emulsion Roof Coating is an asphalt based, clay emulsion roof coating. It is versatile and specially formulated to give excellent resistance to water. Superior formulation provides increased weather resistance and durability. This product does not flow when applied in thick coatings and when dry, will stay in place even when exposed to elevated temperatures. In addition, the solvent free formulations are water based and non-combustible, requiring no "red tag" labeling for fire hazard.

BASIC USES

Mule-Hide #311 Non-Fibrated Emulsion Roof Coating is especially recommended as a roof coating over smooth surfaced asphalt built-up and modified bitumen membranes. Because of its toughness and abrasive resistance, it can be used as the final coating in cold process roof specifications, particularly on low slope roofs. Mule-Hide #311 Non-Fibrated Emulsion Roof Coating is effective as a base coat for reflective coatings. It is also effective in damp proofing below grade exterior applications.

PHYSICAL PROPERTIES*

Appearance black	SETA Flash point Non-combustible	Solids by Weight 53%
Color Black	Application Temp (Min) 45F	Mixing Requires mechanical agitation
Consistency @ 77F Squeegee, brush or spray	VOC (Max) 100 g/l	Sizes 4.75 gal/18.0 L
Coverage 3 - 4 gal/100 sq.ft	Weight per Gallon 8.5-8.8 lbs	Suspendability Settles slightly

* Data reported is based on available independent and in-house resources. Mule-Hide reserves the right to change or modify, at its discretion, and without prior written notice, any of the information, requirements, specifications or policies contained in this document.

PACKAGING

Available in 5 gallon pails

APPLICATION METHODS AND RECOMMENDATIONS

Application Rate: Approximately 3-4 gallons per 100 sq.ft. per coat, may vary with surface conditions and membranes used. Drying time 6-10 hours under good conditions, however time will vary in other weather conditions. Allow at least 4 hours between coating applications. DO NOT APPLY if there is a threat of rain or temperatures fall below 40°F within 24 hours.

Surface Preparation: All surfaces to be adhered must be clean, dry and free from any foreign matter such as oil, grease, dirt or any debris that could inhibit the bonding capabilities of the coating. Sweep or hose off thoroughly to remove all dust and debris. Scrub low areas with powdered detergent and water and rinse completely and allow to dry. On existing roofs, inspect roof deck condition – moisture in old roof may indicate need for roof repair. Blisters, buckles and raised edges should be cut out and repaired for a smooth surface. Check all flashings, edges, drains, valleys and vents and repair as needed. Dusty or porous masonry, old roofs, and all metal surfaces should be primed with Mule-Hide #121 Asphalt Primer and allowed to dry thoroughly before coating with Mule-Hide #311 Non-Fibrated Emulsion Roof Coating.

Material Preparation: To ensure uniform coating, stir well before application. A power drill with paddles is recommended. Do not thin!

MULE-HIDE PRODUCTS CO., INC.

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Installation Method: Apply emulsion with roofing brush or spray covering the surface at an even 3-4 gallons per 100 ft². For spray application use a Graco 30:1 ratio pump or equivalent, capable of delivering 3-5 gallons a minute.

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

Storage/Handling & Fire Warning: Mule-Hide #311 Non-Fibrated Emulsion Roof Coating should always be kept away from heat, open flame and any source of ignition. Do not allow emulsion to freeze.

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

PRECAUTIONS AND WARNINGS

COMBUSTIBLE LIQUID AND VAPOR

Contains petroleum distillate. Harmful or fatal if swallowed. Close container after each use. DO NOT TAKE INTERNALLY! Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Causes nose and throat irritation. Causes eye irritation. Causes skin irritation. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat and open flame. Use only with adequate ventilation. **CLOSE AIR INTAKES** on roof until vapors dissipate. Do not breathe vapors. If you experience eye watering, headache, or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Dispose of container and unused contents in accordance with Local, State and Federal regulations.

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

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

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state and federal regulations.

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

CUSTOMER SERVICES

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

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QUALITY STANDARDS AND APPROVALS

Mule-Hide #311 Non-Fibrated Emulsion Roof Coating is listed and approved by Miami Dade County. Meets or exceeds the requirements of ASTM D 1227 Type II.

COMPATIBILITY AND LIMITATIONS

Do not use on extremely wet surfaces, directly over wood or on surfaces previously covered with coal tar products. Will not prevent alligatoring of hot-mop asphalt roofing. Not recommended over extremely aged, dry brittle roofing. Do not apply if there is a threat of rain within 24 hours. Do not use over: Coal Tar, PVC, TPO, Hypalon, EPDM or gravel surfaced membranes or over shingles of any kind.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not make nor does it authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Mule-Hide's physical properties. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury of person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the complaint or failure before repairs are made.

Form # PDS- A311
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