

# MULE-HIDE # 420 MOD BIT ADHESIVE - BRUSH GRADE

## PRODUCT DESCRIPTION

Mule-Hide #420 Mod Bit Adhesive is a select formulation for use as a cold-applied bonding agent for SBS modified bitumen base sheets and SBS modified bitumen roof membranes. Though combustible, this product requires no “red tag” labeling for fire hazard. **Not to be sold in VOC regulated areas where this product exceeds the maximum VOC limits.**

## BASIC USES

Mule-Hide #420 Mod Bit Adhesive is designed to apply SBS modified bitumen base sheets and SBS modified bitumen roof membranes to approved substrates such as structural concrete roof decks, existing smooth surface asphalt built-up roofs, polyisocyanurate insulation, Type G2 base sheets or other approved surfaces. Not to be used to adhere APP membranes.

## PHYSICAL PROPERTIES\*

<b>Appearance</b> Fibrous Black/Thick	<b>SETA Flash point</b> 105F	<b>Solids by Weight</b> 65%
<b>Color</b> Black	<b>Peel Strength</b> 30 lbf/in	<b>Specific Gravity @ 77F</b> 0.99
<b>Consistency @ 77F</b> Squeegee, brush or spray	<b>VOC (Max)</b> 380 g/l	<b>Sizes</b> 4.75 gal/18.0 L
<b>Coverage</b> 1.5 to 2.0 gal/100 sq.ft	<b>Weight per Gallon</b> 7.9-8.3 lbs	<b>Suspendability</b> Slightly settles

\* 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:** Normal rate is between 1.5 – 2 gallons per 100 square feet (0.6 – 0.8 L/m<sup>2</sup>) when applied to base sheet.

**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 adhesive. On existing roofs, inspect roof deck condition – moisture in old roof or local building codes may require complete removal of existing roof. 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.

**Material Preparation:** Stir thoroughly before application. Do not thin.

**Installation Method:** Apply adhesive by spray, brush or notched squeegee at a rate of 1.5 – 2.0 gallons per square (0.6 to 0.8 L/m<sup>2</sup>) to structural concrete deck, Type G2 base sheet or SBS modified asphalt membrane. Spray: A Graco 45.1 pump or equivalent is recommended. Consult equipment manufacturer for optimum psi, spray tip size, length of hose, and number of guns to achieve uniform application. Squeegee: When using a squeegee it should have ¼” (6mm) serration’s to apply a uniform, smooth, even coat without gaps, dry areas or bubbles. Brush: Apply in a uniform, smooth, even coat without gaps, dry areas or bubbles. Do not over apply.

**MULE-HIDE PRODUCTS CO., INC.**

P.O. Box 1057, Beloit, WI 53512-1057 • 800/786-1492 • Fax: 608/365-7852

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**Attachment:** The adhesive sets by evaporation of the solvent. After adhesive application allow 5-15 minutes cure time before applying membrane. Unroll modified and base sheet rolls and allow them to relax prior to installation. Make sure that membrane is laying flat and making full contact with the adhesive. Roll all side and end laps, making sure a sufficient amount of adhesive is applied to the laps so that a bead of adhesive is visible at all lap edges. Two layer application: Install SBS base membrane in adhesive, wait three (3) to seven (7) days to allow adhesive to set before installing the SBS cap membrane. Note: Additional membrane layers applied in adhesive are not recommended.

**Roof Slope:** The adhesive may be used on slopes up to 1½" per foot (12 cm/meter); for slopes exceeding 1½" per foot, use Mule-Hide #251 Premium Wet/Dry Elastomeric Flashing Cement.

**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 unopened container 24 hours at room temperature prior to application. Do not heat container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F (76° C).

**Storage/Handling & Fire Warning:** Mule-Hide #420 Mod Bit Adhesive is combustible and should always be kept away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not store at temperatures greater than 110°F.

**Clean Up:** Keep containers covered when not in use. Clean equipment and over spray with kerosene, mineral spirits or petroleum naphtha. Clean hands with waterless hand cleaner.

### 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 solvents dissipate. Do not breathe vapors. If you experience eye watering, headache, or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. 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.

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

**CUSTOMER SERVICES**

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

**QUALITY STANDARDS AND APPROVALS**

Mule-Hide #420 Mod Bit Adhesive is listed and approved by the following agencies or code bodies: Miami Dade County. Meets or exceeds the requirements of ASTM D 3019 Lap Adhesive used with Asphalt Roll Roofing, Type III.

**COMPATIBILITY AND LIMITATIONS**

Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar products. Not to be installed over or under polystyrene insulation. (**Note:** Mule-Hide #420 Mod Bit Adhesive should not be used with any modified bitumen membranes that have a plastic film surface or are metal foil faced.) Not to be used to adhere APP membranes.

**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- A420  
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