

# MULE-HIDE # 421 MOD BIT FLASHING ADHESIVE - TROWEL GRADE

## PRODUCT DESCRIPTION

Mule-Hide #421 Mod Bit Flashing Adhesive – Trowel Grade is a high quality formulation for use as a cold-applied bonding agent for SBS modified bitumen roof systems. Heavy, “trowel-grade” consistency makes this product ideal for flashing details, attachment of membrane to steep slopes and parapet walls and a variety of waterproofing repairs, especially at moving joints where its flexibility and elasticity make it superior to standard plastic cements. In addition, the formulation is non-destructive to asphalt based roofing membranes. Though combustible, this product requires no “red tag” labeling for fire hazard.

## BASIC USES

Mule-Hide #421 Mod Bit Flashing Adhesive – Trowel Grade is designed to apply SBS modified bitumen membrane flashing to parapet walls, curbs and roof penetrations, for sealing lap seams and perimeter edges of SBS modified bitumen membrane, for installing metal edge flanges and sealing gutter seams and air conditioning ducts or other metal joints, for repairing splits, breaks and small holes in roofing and flashing and for sealing joints of metal roof panels, metal flashings and coping caps. May be used for topical flashing details or repairs on APP modified bitumen roofing applications. 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> 70% min
<b>Color</b> Black	<b>Viscosity</b> 250-300dmm	<b>Specific Gravity @ 77F</b> 1.10-1.13
<b>Consistency @ 77F</b> Trowel	<b>VOC (Max)</b> 300 g/l	<b>Sizes</b> 4.75 gal/18.0 L
<b>Coverage</b> 12.5 sq.ft/gal	<b>Weight per Gallon</b> 8.9-9.5 lbs	<b>Behavior@140F</b> No sag or cracking

\* 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 3.0 gallon pails

## APPLICATION METHODS AND RECOMMENDATIONS

**Application Rate:** Approximately 8 gallons per 100 square feet for a 1/8” coat applied to both surfaces.

**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 flashing cement. 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.

**Installation Method:** Use notched trowel or wide-edged putty knife to apply cement evenly and in equal amounts to substrate and SBS membrane flashing. Coat should be 1/16” to 1/8” thick on each surface, without gaps, dry areas or bubbles.

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**Attachment:** Membrane Flashing: No cure time before attaching flashing; simply press into place with even pressure, smoothing out wrinkles and bubbles. Coat underside of membrane with cement at rate indicated. Adhere membrane to cemented substrate and press into place working out any wrinkles or non-adhered areas. Roll all side and end laps, making sure a sufficient amount of adhesive is applied to on parapet walls to avoid membrane slippage. Coursing: Apply cement to surface and install fabric or webbing into cement, repeat method for desired courses. When finished, coat with another layer of cement. Metal: Set metal flanges in full bead of 1/8" thick cement. Apply cement between joints and apply pressure so that a bead of cement is visible at joint edge. Sealing/Repairs: Apply cement at a 1/8" to 1/4" thickness, working the cement into the opening or crack and spread beyond repair area approximately 2-4 inches. If repair area is over 1/4" wide or more than 2" long, embed glass or polyester fabric into the cement for added reinforcement, then cover with additional cement. If desired, repeat procedure for coursing application and feather each layer of fabric beyond underlying layer.

**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 #421 Mod Bit Flashing 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 #421 Mod Bit Flashing Adhesive meets or exceeds the requirements of ASTM D 4586 Asphalt Roof Cement Type I.

### 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. Do not use to adhere any APP membranes or with any modified bitumen membranes that have a plastic film surface or are metal foil faced. May be used as a topical application on 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.

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