



# Product Data Sheet

## 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.



### BASIC USES

- For applying SBS modified bitumen membrane flashing to parapet walls, curbs and roof penetrations.
- For sealing laps seams and perimeter edges of SBS modified bitumen membranes.
- May be used as a topical application on smooth or granule APP products for roofing repairs only.
- For repairing splits, breaks and small holes in asphalt based roof membranes and flashings.
- For installing metal edge flanges and other metal joints.
- Positive-side damp proofing of concrete, masonry walls and foundations.
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.
- DO NOT USE under any APP or any torch products with burn off film.
- DO NOT USE over or under expanded polystyrene insulation.

### PHYSICAL PROPERTY INFORMATION\*

Property	Value
Maximum VOC	250 G/l
Consistency	Thick soft mastic
Weight	9.1 lbs. per gallon
Flash Point (T.C.C.)	105°F+
Service Temperature (range)	40°F to 100°F

\* 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

- 4.7 Gallon Pail (17.79 Liters)
- 2.8 Gallon Pails (10.59 Liters)

### BENEFITS & SUPPLEMENTAL STATEMENTS

- High flexibility to accommodate temperature-related expansion and contraction of the roof system
- Great bonding strength
- Provides exceptional weathering characteristics over a wide range of challenging temperatures and weather conditions.
- Will not mudcrack and remains highly flexible, resilient and durable through all seasons.
- Eliminates need for kettles and torches.
- Interlocking fiber matrix assures uniform, excellent adhesion.
- Excellent flow resistance when used on vertical slopes at high temperature.
- Non-destructive to conventional asphalt based roofing membranes.
- 100% recycled cellulose fibers

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## **CODE APPROVALS/COMPLIANCE**

- Miami Dade County Approved
- Meets or exceeds requirements ASTM D4586 Type I Class 1 and D3409

## **COVERAGE RATES**

- Approximately 1 – 1.5 gallons per 100 sq. ft. when applied to a smooth surface  
(All values are approximate and may vary with ambient temperature and job conditions)

## **INSTALLATION TEMPERATURE**

- Apply only when ambient temperatures are 45°F and rising. Cold weather could result in uneven application and improper curing of product. Cold weather will cause product to stiffen making application more difficult.
- Store product at room temperature for minimum 24 hours prior to application.
- Do not heat container or attempt to thin this product.
- Not recommended for application on substrates that exceed 140°F.

## **INSTALLATION INSTRUCTIONS**

### **Surface Preparation:**

- All surfaces to receive coating 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 roof cement. Priming is recommended when adhering to questionable conditions.
- Blisters, buckles and raised edges should be cut out for a smooth surface.
- Check all flashing, edges, drains, valleys and vents and repair as needed.
- On gravel roofs, remove gravel before making repair.
- Do not use on wet or damp surfaces, directly over wood or surfaces previously covered with coal tar based products.

### **Installation Method:**

- Unroll modified bitumen and base sheet rolls and allow them to lay flat prior to installation.
- Stir product well prior to application.
- Product may be installed by high pressure spray, notched squeegee, or brush application methods.
- After Adhesive Application: Install membrane within 15 minutes of adhesive application. Roll all side and end laps. Ensure that a sufficient amount of adhesive has been applied so that a bead of adhesive is visible at all lap edges after rolling.
- Two Layer Application: Install SBS base membrane in adhesive. Wait three to seven hours to allow base layer adhesive to set before installing the SBS cap membrane. Install SBS cap membrane and adhesive in similar fashion as SBS base membrane.
- Slope Restrictions: The adhesive may be used on slopes up to approximately 1 ½" per foot without back-nailing. Slopes greater than 1 ½" in per foot will require that the membrane be back-nailed.

## **PRECAUTIONS**

### **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.

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## **PRECAUTIONS (continued)**

- 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.
- **California Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer, birth defects and/or reproductive harm.

**Personal Protection** – Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

**Eye Contact** – Rinse immediately with clean water for 15 minutes and see medical advice.

**Waste Disposal** – Empty containers must be disposed of in accordance with local, state, and federal regulations.

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

**For Exterior Use Only** - Refer to material safety data sheet (MSDS) for specific data and handling.

## **CLEAN UP**

- Clean tools with mineral spirits or paint thinner.

## **STORAGE & HANDLING**

- Product shelf life is 24 months from date of manufacture when properly stored.
- Store container at room temperature for minimum 24 hours prior to use.
- Do not store at temperatures greater than 120°F.
- Observe normal safeguards for storing and handling of product prior to and during use.
- Keep containers tightly covered when not in use.

## **PROTECTION & SAFETY**

Mule-Hide maintains Safety Data Sheets on all of its non-exempt 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 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.

## **DISCLAIMER**

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