



#421 MOD BIT ADHESIVE TROWEL GRADE

PRODUCT DESCRIPTION

#421 Mod Bit Adhesive – is a high-quality formulation suitable for use as a cold-applied bonding agent for SBS roofing systems as well as various other membrane systems. #421 Mod Bit Adhesive has a heavy, “trowel-grade” consistency which makes it ideal for flashing details, attachment of membrane to steep slopes and parapet walls and a variety of waterproofing repairs. Its flexibility and elasticity make it superior to standard plastic cements especially where there are moving joints.



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	Test Procedure	Test Value
Weight/gal (lb)	ASTM D1475	9.0 – 9.5
Cone Penetration (dmm)	ASTM D312	245 – 330
Flash Point (°F)	PMCC	> 105
VOC (gm/L)	Calculated	< 300
Pliability @ 32°F	ASTM D6511	pass
Sag @ 140°F	ASTM D6511	pass
Solids Weight (%)	ASTM D1644	> 70

* 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

- 2.8 Gallon Pails (10.6 Liters)
- 4.75 Gallon Pail (17.9 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.

Product Data Sheet

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- 100% recycled cellulose fibers

CODE APPROVALS/COMPLIANCE

- Meets or exceeds the requirements of ASTM D4586 Asphalt Roof Cement, Type I and ASTM D3409 Class I and Class II (adhesion to wet surfaces)
- Florida Building Code
- Miami-Dade County Product Control Approved

COVERAGE RATES

- Approximately 8 gallons per 100 sq. ft. for a 1/8" (3 mm) coat applied to both surfaces.
(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.
- Not recommended for application on substrates that exceed 140°F.

INSTALLATION INSTRUCTIONS

Surface Preparation:

- 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. Priming is recommended when adhering to questionable conditions.
- On existing roofs, inspect roof substrate condition. 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.
- Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar-based products.

Application:

- Application Rate: Apply 1/8" coat (approximately eight gallons per square) depending on ambient temperature, surface porosity, as well as applicator and/or application technique.
- Application Method: Use pointed trowel or wide-edged putty knife to apply cement evenly and in equal amounts to substrate and flashing. Coat should be 1/8" thick, without gaps, dry areas, or bubbles.
- Membrane Flashing: Coat underside of membrane with cement at rate indicated. No cure time required before flashing installation, simply press into place with even pressure, smoothing out wrinkles and bubbles. Roll all side and end laps, making sure a sufficient amount of product is applied to the laps so that a bead is visible at all lap edges. Mechanically fasten membrane flashings to parapet walls to avoid membrane slippage.
- Coursing: Apply cement to surface and install fabric or webbing into cement, then apply a final course of cement.
- Metal: Set metal flashings in full 1/8" bead. Apply product between joints and apply pressure so that bead is visible at joint edge.
- Sealing/Repairs: Apply cement at a thickness of 1/8" to 1/4" working the product into the opening or crack and spread two inches beyond repair area at minimum. Embed glass or cotton fabric into the cement for added reinforcement, then cover with additional cement.
- Best suited when ambient temperatures are 45°F and rising.
- Cold weather will cause product to stiffen, making application more difficult.
- Do not heat exterior of container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F.
- To greatly extend the life of the roof cement, it is recommended that the applicator apply a Mule-Hide

Product Data Sheet

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Aluminum roof coating after a minimum of 30 days cure time.

Limitations:

- Do not use on TPO, EPDM, PVC, or other single ply membranes.
- Not to be installed over or under polystyrene insulation.
- Do not use this product under any APP or any torch products with burn off film.

STORAGE AND CLEANING:

- Shelf life is 24 months if stored in original unopened containers.
- All containers should be sealed when not in use.
- Store between 40°F and 100°F.
- If temperatures are cold, store product in a heated area overnight.
- DO NOT HEAT WITH AN OPEN FLAME.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Clean equipment and overspray with water.
- Clean hands with waterless hand cleaner.
- Application tools and equipment can be cleaned with odorless mineral spirits solvent. Recirculate through lines and spray equipment guns until residual coating is removed.
- DO NOT USE WATER OR RECLAIMED 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

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 for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

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