



Product Data Sheet #221 WET/DRY ROOF CEMENT

PRODUCT DESCRIPTION

#221 Wet/Dry Roof Cement is a general purpose formulation wet repair of roof leaks in many types of asphalt roof membranes. Its heavy “trowel-grade” consistency makes this product ideal for sealing and patching temporary emergency holes and cracks in roofs, even in standing water. Formulation is non-destructive to asphalt based roofing materials.

BASIC USES

- Designed for application to wet or dry surfaces for repairing asphalt shingles, conventional built-up roofs, metal and masonry surfaces.
- Sealing leaks and openings around flashings (chimneys, vents, skylights, metal joints, gutters and similar objects used in constructing built-up flashings).
- NOT RECOMMENDED for use with polymer-modified bitumen (APP, SBS).
- DO NOT USE with PVC, TPO, EPDM or other single-ply membranes.



PHYSICAL PROPERTY INFORMATION*

Property	Test Procedure	Test Value
Weight/gal (lb)	ASTM D 2939	7.8 - 8.5
Cone Penetration (dmm)	ASTM D 312	270 - 290
Solids Weight (%)	ASTM D 1644	> 70
Flash Point (°F)	PMCC	>105 °F
VOC (gm/L)	Std method	<300
Sag @ 140° F	ASTM D6511	pass
Pliability @ 32° F	ASTM D6511	pass
Adhesion to wet or under water surfaces	ASTM D3409	pass

* 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 Pail (10.6 Liters)
- 4.75 Gallon Pail (18 Liters)

BENEFITS & SUPPLEMENTAL STATEMENTS

- Contains a specific additive that displaces standing water from wet surfaces to create a tight seal.
- 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 will remain highly resilient and durable through all seasons
- Interlocking fiber matrix assures uniform, excellent adhesion
- Exhibits excellent sag resistance when used on vertical surfaces, even at high temperatures.
- Non-destructive to conventional asphalt based roofing membranes.
- 100% recycled cellulose fibers

CODE APPROVALS/COMPLIANCE

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

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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 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 directly over wood or on surfaces previously covered with coal tar-based products.
- Not recommended for use with polymer-modified bitumen membranes.

Application

- Application rate: Approximately 1/8" coat 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.
- Three coursing: Apply plastic cement to surface and install fabric or webbing into cement, then apply a final course of roof cement.
- Sealing/Repairs: Work the product into the opening or crack and spread two inches beyond repair area at minimum. Embed reinforcing 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.
- Do not heat exterior of container or attempt to thin this product. Cold weather will cause product to stiffen, making application more difficult.
- To greatly extend the life of the roof cement, it is recommended that the applicator apply a Mule-Hide Aluminum roof coating after a minimum of 30 days cure time.

STORAGE AND CLEANING

- Product shelf life: 24 months from date of manufacture when properly stored.
- Store container 24 hours at room temperature prior to application.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Keep containers covered when not in use.
- Clean equipment and contaminated surfaces with kerosene or mineral spirits.
- Clean hands with waterless hand cleaner.

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PRECAUTIONS

- Combustible Liquid and Vapor - Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Causes nose and throat irritation. Causes eye and 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.
- 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 seek 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

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- 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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