

# PRODUCT DATA SHEET

## MULE-HIDE TPO LOW VOC BONDING ADHESIVE

### PRODUCT DESCRIPTION

Mule-Hide TPO Low VOC Bonding Adhesive is a high strength solvent-based contact adhesive that allows bonding of Mule-Hide membrane to various porous and non-porous substrates. It is specially formulated using a blend of VOC exempt and non-exempt solvents to be in compliance with the state of California Clean Air Act of 1988 (updated in 1997) and as further regulated by California's Air Quality Control Districts listing VOC grams per liter limitations.

### PRODUCT BENEFITS

- Fast drying
- Excellent heat resistance
- Brushes or roller coats easily over a wide application temperature range
- Long open tack time
- Excellent green strength

### SPECIFICATIONS

Color	Yellow
Flash Point	0 degrees F (-17 degrees C) Closed Cup
VOC	250 g/ 1 Max.
Estimated Coverage	60 ft <sup>2</sup> (5.6 square m) per gallon finished surface. Coverage rates are average and may vary due to conditions on the job site. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate.
Packaging	5 Gallon Pail
Shelf Life	1 Year
Avg. Net Weight	9.4 lbs./Gal (4.3 Kg)

### PACKAGING AND STORAGE

**DOT Label Required:** Flammable Liquid

Mule-Hide TPO Low VOC Bonding Adhesive should be stored in a closed container between 60°F and 80°F for no longer than one year. Rotate stock.

### INSTALLATION INSTRUCTIONS

Read all instruction information on the label prior to use. Materials to be bonded should be clean, dry, and free from contaminants. Stir adhesive thoroughly before use. Apply adhesive by roller to the substrate and membrane at the specified coverage rate. Allow to dry 15 to 30 minutes (but still tacky) before assembly. Mate with adequate pressure to ensure contact of all bonding areas. See Mule-Hide TPO Specifications Manual for additional application procedures.

### CAUTIONS AND WARNINGS

1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.
2. Mule-Hide TPO Low VOC Bonding Adhesive is **EXTREMELY FLAMMABLE** - It contains solvents that are dangerous fire and explosion hazards when exposed to heat, flame or sparks. Do not smoke while applying. Do not use in a confined or unventilated area. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point and flashback. All containers should be grounded when material is transferred from one container to another. A red caution label is required when shipping. A fire extinguisher should be available. In case of fire, use water spray, foam, dry chemical or carbon dioxide. Do not use a solid stream of water because it can scatter and spread the fire.
3. Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. Do not place open containers or mix adhesive near fresh air intake units. When possible, shut down or seal off the closest units.
4. If swallowed, **DO NOT INDUCE VOMITING**. Call a physician immediately.

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Date 01/01/2006

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

P.O. Box 1057, Beloit, WI 53512-1057 • 608/365-3111 • Fax: 608/365-7852

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### MULE-HIDE LOW VOC BONDING ADHESIVE

5. Avoid contact with eyes. Safety glasses or goggles are recommended. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
6. Avoid contact with skin. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water. Contact physician if irritation persists.
7. **Do not thin TPO Low VOC Bonding Adhesive.** Thinning will affect performance. Excessively thick or gelled material should be discarded.

**Note:** Solvent resistant gloves are recommended to be worn when using this product to protect hands from irritating ingredients.

8. Job site storage in excess of 90°F (32°C) may affect product shelf life. Should the TPO Low VOC Bonding Adhesive be stored at temperatures lower than 60°F (15°C), rest ore to room temperature prior to use.
9. Opened containers of TPO Low VOC Bonding Adhesive should be used within 48 hours. Adhesive will begin to thicken after this point, making it difficult, and eventually impossible, to control applied thickness. In hot weather, do not leave sealed containers on roof for prolonged periods of time. In cold weather, keep material at room temperature until ready to use. Stir adhesive occasionally while using.
10. **Adhesive must be allowed to dry thoroughly.** If membrane is mated with the substrate prior to the adhesive being dry, blistering will occur and not subside over time.
11. **KEEP OUT OF THE REACH OF CHILDREN.**

#### **MIXING:**

**Stir thoroughly until all settled pigments are dispersed and the cement is uniform in color. Minimum 5 minutes stirring is recommended.**

#### **TECHNICAL SERVICES**

Contact Mule-Hide Products Co., Inc. at 608/365-3111 for technical service information.

#### **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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