



# SEAL-FAST LIQUI-FLASH

Rev Apr 2023

## DESCRIPTION

Seal-Fast Liqui-Flash is a single component, non-shrink sealant designed for filling and sealing pitch pockets and pans, metal roof seams & fasteners, inlaid gutters, polyurethane foam, aged smooth asphalt and modified bitumen and aged PVC and EPDM roofs. It may also be used on TPO roofs when primed. Liqui-Flash is compatible with Mule-Hide acrylic and silicone roof coatings. It is ideal for repairing hail damaged polyurethane foam roofs. It may also be used in conjunction with custom manufactured Mule-Hide Shape Shift and metal pitch pockets. Liqui-Flash will require the use of an acceptable primer when applied to new single-ply materials. Liqui-Flash can be used to seal and flash unusually shaped penetrations. It can be combined with Polyester Reinforced Fabric to solve any typical or challenging penetration on aged roofs.



Liqui-Flash is semi-self-leveling so that it can be used to seal seams and affect repairs on single-ply membranes at any slope. Liqui-Flash may be applied with minimal tooling. Viscous enough to avoid running and drain out issues encountered with more liquid sealers. Performance range is -40° F to +200° F.

## TYPICAL PHYSICAL PROPERTIES

| Uncured Property                                                                                                                                                                                                                                                                                                   | Value*                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Appearance                                                                                                                                                                                                                                                                                                         | Self-Leveling, Low Viscosity Paste |
| Standard Colors                                                                                                                                                                                                                                                                                                    | White, Limestone Grey, and Black   |
| Curing Mechanism                                                                                                                                                                                                                                                                                                   | Moisture Curing                    |
| Viscosity                                                                                                                                                                                                                                                                                                          | 20,000-100,000 cps                 |
| Curing through volume (mm)<br>(1 day at 23°C and 50% RH)                                                                                                                                                                                                                                                           | ≥3                                 |
| Density (g/cc)                                                                                                                                                                                                                                                                                                     | 1.49 +/- 0.3                       |
| VOC                                                                                                                                                                                                                                                                                                                | 15 g/l                             |
| Cured Property                                                                                                                                                                                                                                                                                                     | Value*                             |
| Shore A                                                                                                                                                                                                                                                                                                            | 25 +/- 5                           |
| Tensile Strength (PSI)                                                                                                                                                                                                                                                                                             | ≥200                               |
| Elongation                                                                                                                                                                                                                                                                                                         | ≥800 %                             |
| Low temperature flexibility                                                                                                                                                                                                                                                                                        | Properties retained to -75°F       |
| *Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification or specification range for any particular property of this product. Property values are +/- 5% |                                    |

## PACKAGING

Container Sizes: 20oz. Sausage tubes, 1-gallon pails, and 3.5-gallon pails

## CODE APPROVALS/COMPLIANCE

Meets: ASTM C-920, Type S, Grade P, Class 25, Use T and M  
 Federal Specification TT-S-00230C, Type 1, Class A  
 CAN/CGSB-19.13-M87, Class C-1-40-B-N and C-1-25-B-N

## COVERAGE RATES

1 Sausage Tube @ 60 mils = Approximately 2 square feet  
 1 gallon @ 60 mils = Approximately 25 square feet  
 These coverage rates are approximate and do not account for waste or irregular surfaces.

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## INSTALLATION INSTRUCTIONS

- A. Liqui-Flash is a one component, ready-to-use material that requires no mixing or preparation.
1. A quality caulking gun should be used with sausage tubes.
  2. Liqui-Flash may be applied by brush, trowel or caulking gun.
  3. If there is a concern related to potential adhesion of this product to a specific substrate, an adhesion test should be performed. Contact Mule-Hide's Technical Department for more information.
- B. Liqui-Flash used as a repair compound
1. Surface Preparation
    - a. All surfaces must be structurally sound, dry and free of all dust, dirt, grease and any contamination or loose materials which may affect adhesion.
    - b. Mule-Hide recommends cleaning with Si Cleaning Solvent or an appropriate membrane cleaner prior to application of the Liqui-Flash. Allow to dry before proceeding.
  2. Aged single-ply membranes may require primers after cleaning prior to the application of the Liqui-Flash sealant. Adhesion tests should be performed to determine the need to use a primer. See chart below for recommended primers.
  3. When applying Liqui-Flash to an asphalt surface, A-125 Metal Primer may be used as a stain blocking primer.
  4. Maximum application rate should be approximately 60 wet mils (approx. 1/16") per coat.
  5. This product may also be used for filling pitch pans.
  6. Do not apply this product to substrates having temperatures over 180°F (82°C).
- C. Liqui-Flash used as a liquid flashing product for new single-ply, smooth BUR and Modified Bitumen membranes for projects requesting up to and including 20 yr. system warranties.
1. Liqui-Flash is primarily used to flash irregularly shaped penetrations that cannot easily be flashed with conventional flashing materials. It is not intended to replace flashing materials typically used to complete new roof system details.
  2. New single-ply membranes will require the surfaces to be flashed to be wiped thoroughly with the designated membrane cleaner prior to priming. See chart below.
  3. New Modified Bitumen and smooth BUR surfaces do not require pre-cleaning. The contractor must make sure the surface is dry, clean and free of any dirt, debris or contaminants. A-125 Metal Primer may be used to prime the surface to prevent staining.
  4. Mule-Hide requires the use of reinforcing fabric when completing any irregular flashing detail with Liqui-Flash on a roof system requiring a System Warranty.
  5. After completing the cleaning process, apply the appropriate primer and allow to dry.
  6. Precut all necessary pieces of the reinforcing fabric to create the flashing. The fabric should be cut to fit tightly around penetrations and tightly into corners. Overlap of reinforcing fabric should be approximately 2 inches (2"). Fabric should extend a minimum of 6 inches (6") vertically and 6 inches (6") horizontally onto the field of the roof.
  7. Apply a uniform layer (approximately 30 wet mils) of Liqui-Flash to the surfaces to be flashed extending a minimum of 1" past the point where the fabric will be placed. Immediately lay the fabric over the wet material. Brush or roll the fabric to fully embed the fabric into the Liqui-Flash making sure there are no wrinkles or air pockets under the fabric. Apply a second coat of Liqui-Flash at the same rate again extending the Liqui-Flash at least 1 inch (1") past the fabric.
  8. When applying Liqui-Flash to granulated surfaces, clean granules may be broadcast into the top coat of the Liqui-Flash while still wet to blend in with the existing membrane surface.

| Substrate/Membrane | Membrane Cleaner           | Required Membrane Primer     |
|--------------------|----------------------------|------------------------------|
| EPDM               | Weathered Membrane Cleaner | Low VOC Primer               |
| TPO                | Weathered Membrane Cleaner | Low VOC Primer               |
| PVC                | PVC Membrane Cleaner       | Low VOC PVC Step 1 Activator |

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- D. Liqui-Flash used as a liquid flashing product for new fluid applied restoration systems.
  - 1. May be used to replace or substitute the flashing and seam sealer components recommended in fluid applied roof restoration systems.
  - 2. Mule-Hide may require the use of reinforcing fabric when completing any irregular flashing detail with Liqui-Flash on a fluid roof restoration system requiring a System Warranty.
  - 3. After completing the cleaning process, apply the appropriate primer (if required) and allow to dry, as necessary.
  - 4. If using reinforcing fabric, precut all necessary pieces of the reinforcing fabric to create the flashing. The fabric should be cut to fit tightly around penetrations and tightly into corners. Overlap of reinforcing fabric should be approximately 2 inches (2"). Fabric should extend a minimum of 6 inches (6") vertically and 6 inches (6") horizontally onto the field of the roof.
    - a. Apply a uniform layer (approximately 30 wet mils) of Liqui-Flash to the surfaces to be flashed extending a minimum of 1" past the point where the fabric will be placed. Immediately lay the fabric over the wet material. Brush or roll the fabric to fully embed the fabric into the Liqui-Flash making sure there are no wrinkles or air pockets under the fabric.
    - b. Apply a second coat of Liqui-Flash at the same rate again extending the Liqui-Flash at least 1 inch (1") past the fabric.
  - 5. Mule-Hide strongly recommends adhesion tests before starting any application to ensure products selected will adequately bond to the prepared surfaces.

## **CLEAN UP**

Clean up with Mule-Hide Si Cleaning Solvent.

## **STORAGE & HANDLING**

All materials shall have proper identification & labels. All containers must have airtight unbroken seals or unopened containers. All materials must be stored in a secure area to prevent theft, damage, or vandalism. Any containers without proper manufacturer's identification will not be acceptable. All materials at jobsite must have proper SDS Sheets available at the project site. All materials are to be stored in a cool dry place at not less than 45°F and no higher than 90°F.

Shelf life is 2 years from date of manufacturer with proper storage and handling. High temperatures and high humidity during storage will shorten the product's shelf life.

## **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.

## **PRECAUTIONS**

Do not take internally. If swallowed, do not induce vomiting. Read SDS prior to use.

## **KEEP OUT OF REACH OF CHILDREN**

## **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 Co., Inc. at 800-786-1492.

## **DISCLAIMER**

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. 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 authorize anyone to make any warranty of merchantability or

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fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury 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 alleged failure before repairs are made.  
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