



Product Data Sheet

115 CLEANER

Rev: May 2023

DESCRIPTION

115 Cleaner is a roof cleaner which easily cleans dirt, grease, oil and other foreign contamination, using little or no agitation. Product cleans and leaves surface free of residue. Use to help clean substrates prior to repairing and/or applying coatings.

BASIC USES

115 Cleaner is used as a general purpose cleaner prior to the coating of approved surfaces with Mule-Hide Coatings Systems. Power washing with 115 Cleaner effectively removes existing oil, dirt, or grease that would adversely affect the bonding of new coatings and prepares those surfaces for the new primer/coating.

PACKAGING

115 Cleaner is available in:

- 1 gallon pails (3.78 liters)
- 5 gallon pails (18.9 liters)
- 55 gallon drums (208.1 liters).

STORAGE & HANDLING

- Product shelf life: 12 months from date of manufacture when properly stored.
- Do not store at temperatures greater than 120°F. Do not allow product to freeze.
- Discard if frozen.
- Observe normal safeguards for storing & handling of this product prior to and during application.
- Keep containers covered when not in use.

For Professional Use Only - Keep out of the reach of children.

DILUTION RATES

This product is provided as a concentrate and should be diluted at the following rates:

- Heavy Duty Cleaning 2 fl. oz. / gallon
- Very Heavy-Duty Cleaning 4 fl. oz. / gallon

APPLICATION

1. All loose existing coatings, heavy rust, debris and fresh roof cement shall be removed prior to applying 115 Cleaner.
2. Apply to surface with a garden type sprayer in sufficient quantity to wet out the surface for a minimum of 15 minutes without drying.
3. For optimum results dilute 115 Cleaner with water at approximately 2–4 fl. oz. per gallon prior to applying material. Apply diluted cleaning concentrate with conventional or airless spray equipment at an approx. rate of 200–250 sq. ft. per gallon. For best results allow the solution to remain on the surface a minimum of 15–20 minutes. Rinse all surfaces with pressure washing equipment capable of achieving 2000 P.S.I. Extremely dirty or oxidized areas with excessive build-up may require additional cleaning solution and scrubbing with a stiff bristled broom.
4. Always rinse surfaces thoroughly with clean water to ensure no trace of cleaner residue remains. Precaution should be taken to ensure all run-off of oxidation and wash water is removed from exterior building walls after cleaning is complete. Always allow roofing surfaces to dry thoroughly prior to the application of any coating's materials. Consult Mule-Hide Technical Department for additional information or guidelines pertaining to this product.



115 CLEANER

5. Thoroughly power wash 115 Cleaner from surface until rinse water is clean. A final clean water rinse is recommended. This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings.
6. EPDM substrates are properly cleaned when no black residue is present when swiping a finger or white cloth over the cleaned membrane.

PRECAUTIONS

Always wear protective gloves/protective clothing/ eye and face protection when handling and applying 115 Cleaner. As with all chemicals, use caution and good industrial hygiene when handling and disposing of empty 115 Cleaner containers and ensure proper drainage for 115 Cleaner and rinse water run-off from the roof. The diluted 115 Cleaner rinse water can be safely discharged onto the ground surface. If in doubt, always contact the local authorities prior to discharging to the soil surface. Never discharge 115 Cleaner (nor the rinse water generated) directly into any open body of water or drains. Refer to the 115 Cleaner SDS for additional information prior to use or contact Mule-Hide Technical Department, 800-786-1492.

CLEAN UP

Tools, hoses and equipment must be flushed and cleaned immediately with water.

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.

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 fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at www.mulehide.com or contact Mule-Hide directly at 800-786-1492 for details. 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.

115 Cleaner

Concentrated General Purpose Cleaner



The Right Choice for Low-Slope Roofing Products

800-786-1492 • mulehide.com

Rugged • Time-Tested • Weather-Tested

115 Cleaner is a general-purpose cleaner that prepares roof surfaces for the application of Mule-Hide Products roof coating systems. Power washing with 115 Cleaner easily and effectively removes existing oil, dirt, grease and other contaminants, helping ensure that the new coating will form a strong bond with the substrate. It requires little or no agitation and leaves the surface free of residue.

Features & Benefits

- Compatible with Mule-Hide Products silicone and acrylic coating systems.
- Compatible with a wide variety of roof substrates.
- Easily and effectively removes dirt, grease, oil and other grime from the roof surface to ensure proper adhesion of the new primer and finish coats.
- Requires little or no agitation.
- Can be applied with a garden-type airless sprayer.
- Environmentally friendly. It is phosphate-free and contains biodegradable surfactants.
- Safe for crew members and surfaces. It is non-flammable, non-corrosive and non-butyl.

Frequently Asked Questions

Does 115 Cleaner need to be diluted?

Yes. 115 Cleaner is provided as a concentrate and should be diluted. Undiluted cleaner would be difficult to remove from the roof surface. It should be diluted at the following rates:

- Heavy-Duty Cleaning: 2 fl. oz./gallon.
- Very Heavy-Duty Cleaning: 4 fl. oz./gallon.

What types of coating systems is 115 Cleaner compatible with?

115 Cleaner can be used prior to the application of Mule-Hide Products silicone and acrylic coating systems.



Packaging:

- 1-Gallon Pail
- 5-Gallon Pail
- 55-Gallon Drum

Application Method:



Using airless sprayer.

115 Cleaner

Concentrated General Purpose Cleaner



What types of substrates is 115 Cleaner compatible with?

115 Cleaner can be used to clean a wide variety of roof substrates, including TPO, EPDM and PVC membranes; aged silicone coatings; aged acrylic coatings; aged SEBS coatings; concrete; asphalt built-up roofs; granulated modified bitumen roofs; and metal roofs.

How is 115 Cleaner applied?

The general application steps include the following. For full instructions, see the complete Mule-Hide Products specifications or contact the Mule-Hide Products Technical Department.

- 115 Cleaner can be applied using a garden-type airless sprayer.
- Apply 115 Cleaner at an approximate rate of 200-250 sq. ft. per gallon. It should be applied to the roof surface in sufficient quantity to wet the surface for a minimum of 15 minutes without drying.
- Rinse the surface with clean water, using pressure-washing equipment capable of achieving 2000 P.S.I., until the rinse water is clean.
- Care should be taken to ensure that all runoff of oxidation and wash water is removed from exterior building walls after cleaning is complete.
- Allow roofing surfaces to dry thoroughly prior to applying any coating materials.
- EPDM substrates are properly cleaned when no black residue is present when swiping a finger or white cloth over the cleaned membrane.

Should hot or cold water be used to dilute 115 Cleaner?

115 Cleaner works well when diluted with either hot or cold water

Does 115 Cleaner “suds up” when applied to the roof surface?

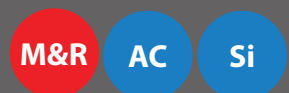
115 Cleaner is a “controlled” suds formula. It does generate suds, but not to the extent of a cleaner like dishwashing detergent.

| Item Number | Description | Gross Weight (lbs) | Units Per Pallet |
|-------------|-------------|--------------------|------------------|
| 16MHA1151 | 1G Pail | 9 | 96 |
| 16MHA1155 | 5G Pail | 49 | 36 |
| 16MHA11555 | 55G Drum | 539 | 4 |



Power washing metal roof.

Used as a component in these systems:



The information herein should not be considered all-inclusive and should always be accompanied by a review of the Mule-Hide specifications and guidelines and good application practices.

This information herein is based upon data and knowledge considered to be true and accurate at the time of printing and is provided for the reader's consideration, investigation and verification. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Mule-Hide Products Co., Inc. does not warrant any results to be obtained. Statements concerning possible use of Mule-Hide products are made without knowledge of your particular roof and such an application may not be fit for your particular purpose. MULE-HIDE DISCLAIMS ALL WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, except written warranties attached to Mule-Hide products and written warranties signed by an officer of Mule-Hide.

Visit the Mule-Hide website at www.mulehide.com prior to any installation for updated technical specifications and details. Mule-Hide is a U.S. registered trademark. All rights reserved. REV 2 8/23



"The name trusted in roofing since 1906"

FLUID-APPLIED

ROOFING SYSTEMS



COATINGS

There is more to roofing than total replacement. When considering life-cycle costs, it can make sense to prolong the life of the roof with coatings and qualify for a fresh No Dollar Limit (NDL) warranty on an existing roof.

Reflective roof coatings extend the service life of a mature roofing system. Lasting restoration or repair delays capital expense until an expensive tear-off or overlay is necessary.

- Trusted performance with quick application & clean up using brush, roller or airless sprayer
- Proven, time-tested formulations
- Minimal disruption to the building
- Maximize installed-cost value
- Energy savings—meets CRRC cool roof requirements by reflecting solar energy and reducing interior building temperatures

ANATOMY OF COATINGS

Roof coating systems are applied in layers to build desired dry mil thickness:

- All installations require proper cleaning prior to application
- Depending on substrate, primer may be required
- Penetrations are individually addressed before base application
- Tinted base eliminates guesswork when applying finish
- With annual maintenance, a properly installed coating system may perform up to 20 years



APPLICATION METHODS:



Airless Sprayer



Roller



Brush



SILICONE COATINGS

100% Silicone Roof Coating is a high-solids, single-part elastomeric roof coating and manufactured from durable inorganic silicone resins, reinforcing and reflective pigments. Apply over new spray-applied polyurethane foam, EPDM, TPO, aged PVC, aged acrylic coatings, concrete, asphalt built-up roofs, granulated modified bitumen roofs and metal roofs.

- Provides years of durable, low-maintenance, seamless protection—control UV damage, reduce thermal shock, fully adhered system seals off water entry points
- Superior resistance to ponding water—low water absorption outperforms conventional solvent- and water-based protective roof coatings
- Same day re-coating possible with quick cure time
- Low-odor—solvent-free formula; VOC compliant throughout North America
- White 100% Silicone Roof Coating improves rooftop air conditioning unit efficiency

Silicone coatings are the best choice when:

- There is ponding water
- A complex roof provides installation issues for a conventional membrane roof
- Two roofing systems exist (eliminating tear-off)

ACRYLIC COATINGS

A-300 Acrylic Roof Coating is an elastomeric, water-based roof coating system or maintenance coating. It may be used over metal and on smooth asphalt built-up roofs, Mod Bit, EPDM, TPO and PVC.

- Exceptional exterior durability and UV stability
- Specifications for both reinforced and non-reinforced assemblies
- Superior flexibility in low-temperature environments

Acrylic coatings are the best choice:

- On tight budgets
- When there is no ponding water
- Over a metal roof with minimal rust when installation temperatures are above freezing





OUTLINING THE FACTS

Coatings have progressed from a maintenance decision to a long-term roofing investment with NDL system warranties up to 20 years.

BEST PRACTICES ON A ROOF COATING INSTALL

1. Coatings alone will not fix a leaky roof

As stated, the primary function of a coating is to extend the service life of an existing roofing system. If the existing roofing system leaks or is severely deteriorated in areas, applying a liquid coating over the affected area is not a long-term solution. Short-term success, maybe, but certainly not a long-term fix.

2. The existing roofing system must be repaired with like materials before applying a coating

Prior to installing any coating, the existing roofing system must be repaired with like materials and brought up to a watertight condition. When restoring a roof, it is very important to not just treat the symptom, but also to correct the cause. By addressing defective roof issues in advance, fluid applied roofing systems can qualify for NDL warranties up to 20 years.

3. Moisture trapped below a coating will try to get out through the coating

Remove all moisture trapped within the existing roofing system. A moisture scan alone does not confirm the absence of moisture. Core cuts of the existing system are required to verify the findings of the moisture scan. Remove and replace all wet materials in the existing roofing system before applying any coating.



4. Coatings don't stick to everything

Adhesion tests are critical in determining the suitability of a particular coating over a particular substrate. Failure to perform adhesion tests before starting the project can lead to catastrophic failures in the new coating system.

5. Coatings do not work well on a gravel-surfaced roof

Gravel surfacing presents numerous problems for a coating project. Enough liquid can be poured over gravel until it is completely covered, but extremely thick coating application presents a whole new set of problems ranging from never drying to severe cracking.

6. Coatings do not stick to a dirty surface

Surface prep must include a thorough cleaning of the original roofing system. Cleaning should include more than power washing with plain water. An appropriate cleaner followed by rinsing is required to provide a suitable surface. Sometimes, heavily-soiled roofs require multiple cleanings to achieve required cleanliness.

7. Spray-apply coatings

Coatings can be applied with a brush, roller or sprayed. Not all sprayers work with all coatings. Spraying coatings provides more even coverage and a better appearance than brushing or rolling, but requires an initial capital investment of \$15,000-\$20,000 for proper equipment. Roof coatings can be very thick, requiring a powerful spray rig to deliver the coating to the substrate.

8. Review formal specifications

Always read manufacturer specifications and consult with a Mule-Hide Territory Manager prior to starting a project.



DESIGN POINT: STAINING/BLEED THROUGH

Asphalt roofs contain light oils. New asphalt and modified bitumen should age a minimum of 90 days prior to coating application to allow the oils to leave the membrane. Even aged asphalt and modified bitumen have enough retained oil to cause staining. Any coating applied over asphalt or modified bitumen should have a stain blocker.

ROOF COATING RESTORATION COMPARISONS OVER:

ASPHALT-BASED ROOFS

| Attribute | Acrylic | | Silicone | | |
|-------------------------------|---|-----------------------|--|--------------------------|--------------------------|
| Resistance to Ponding Water | Fair | | Very Good | | |
| Permeable | Yes | | Yes | | |
| Primer Required | No | | Yes | | |
| Low-Temperature Restrictions | Installation temperatures must be above 45°F for 48 consecutive hours | | Installation temperatures must be above 40°F | | |
| High-Temperature Restrictions | Do not exceed 110°F | | Do not exceed 120°F | | |
| Re-Coat Time | 12 hours | | 2-4 hours | | |
| Strong Odor | No | | Mild | | |
| System | Acrylic | | Silicone | | |
| Warranty | 10 yr | 15 yr | 10 yr | 15 yr | 20 yr |
| 20 Yr | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) |
| Coverage per Sq | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal |
| Primer | Not Required | Not Required | Multibase SB (If needed) | Multibase SB (If needed) | Multibase SB (If needed) |
| Coverage per Sq | | | 1.5-Gal | 1.5-Gal | 1.5-Gal |
| Seams & Flashing | A-200 Flashing | A-200 Flashing | Silicone Roof Sealant | Silicone Roof Sealant | Silicone Roof Sealant |
| Base Coat | A-300 Base | A-300 Base | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 1st Coat per Sq | 1.5 Gal | 1.5 Gal | Base coats are not required. Single-pass applications are recommended. | | |
| Wet Mil Thickness | 24 | 24 | | | |
| Dry Mil Thickness | 12 | 12 | | | |
| Finish Coat | A-300 Finish | A-300 Finish | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 2nd Coat per Sq | 1.5 Gal | 1 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| 3rd Coat per Sq | – | 1 Gal | – | – | – |
| Wet Mil Thickness | 24 | 32 | 24 | 32 | 40 |
| Dry Mil Thickness | 12 | 16 | 22 | 30 | 38 |
| Total Minimum Requirements | | | | | |
| Gallons per Square | 3 Gal | 3.5 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| Dry Mil Thickness | 24 | 28 | 22 | 30 | 38 |

APPLICATION METHODS:



Airless Sprayer



Roller



Brush



DESIGN POINT: ADHESION

TPO membranes have a low-surface energy making adhesion difficult. Adhering coatings to TPO membranes requires sanding, scuffing or priming the surface. A-300 Base TPO and Si TPO Primer formulas address low surface energy and improve coating adhesion.

ROOF COATING RESTORATION COMPARISONS OVER:

TPO ROOFS

| Attribute | Acrylic | | Silicone | | |
|-------------------------------|---|-----------------------|--|---------------------------|---------------------------|
| Resistance to Ponding Water | Fair | | Very Good | | |
| Permeable | Yes | | Yes | | |
| Primer Required | No | | Yes | | |
| Low-Temperature Restrictions | Installation temperatures must be above 45°F for 48 consecutive hours | | Installation temperatures must be above 40°F | | |
| High-Temperature Restrictions | Do not exceed 110°F | | Do not exceed 120°F | | |
| Re-Coat Time | 12 hours | | 2-4 hours | | |
| Strong Odor | No | | Mild | | |
| System | Acrylic | | Silicone | | |
| Warranty | 10 yr | 15 yr | 10 yr | 15 yr | 20 yr |
| Clean | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) |
| Coverage per Sq | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal |
| Primer | Not Required | Not Required | Si TPO Primer (if needed) | Si TPO Primer (if needed) | Si TPO Primer (if needed) |
| Coverage per Sq | | | 1/8 Gal | 1/8 Gal | 1/8 Gal |
| Seams & Flashing | A-200 Flashing | A-200 Flashing | Silicone Roof Sealant | Silicone Roof Sealant | Silicone Roof Sealant |
| Base Coat | A-300 Base TPO | A-300 Base TPO | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 1st Coat per Sq | 1.5 Gal | 1.5 Gal | Base coats are not required. Single-pass applications are recommended. | | |
| Wet Mil Thickness | 24 | 24 | | | |
| Dry Mil Thickness | 12 | 12 | | | |
| Finish Coat | A-300 Finish | A-300 Finish | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 2nd Coat per Sq | 1.5 Gal | 1 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| 3rd Coat per Sq | – | 1 Gal | – | – | – |
| Wet Mil Thickness | 24 | 32 | 24 | 32 | 40 |
| Dry Mil Thickness | 12 | 16 | 22 | 30 | 38 |
| Total Minimum Requirements | | | | | |
| Gallons per Square | 3 Gal | 3.5 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| Dry Mil Thickness | 24 | 28 | 22 | 30 | 38 |

APPLICATION METHODS:



Airless Sprayer



Roller



Brush



DESIGN POINT: PLASTICIZER MIGRATION

PVC in its natural state is rigid. Added plasticizers make PVC flexible for use as a roofing membrane but difficult to coat. As PVC ages and plasticizers migrate out of the membrane, it becomes a candidate for roof coatings.

ROOF COATING RESTORATION COMPARISONS OVER:

PVC ROOFS

| Attribute | Acrylic | | Silicone | | |
|-------------------------------|---|-----------------------|--|--------------------------|--------------------------|
| Resistance to Ponding Water | Fair | | Very Good | | |
| Permeable | Yes | | Yes | | |
| Primer Required | No | | Yes | | |
| Low-Temperature Restrictions | Installation temperatures must be above 45°F for 48 consecutive hours | | Installation temperatures must be above 40°F | | |
| High-Temperature Restrictions | Do not exceed 110°F | | Do not exceed 120°F | | |
| Re-Coat Time | 12 hours | | 2-4 hours | | |
| Strong Odor | No | | Mild | | |
| System | Acrylic | | Silicone | | |
| Warranty | 10 yr | 15 yr | 10 yr | 15 yr | 20 yr |
| Clean | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) |
| Coverage per Sq | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal |
| Primer | Not Required | Not Required | Multibase SB (If needed) | Multibase SB (If needed) | Multibase SB (If needed) |
| Coverage per Sq | | | 1.5 Gal | 1.5 Gal | 1.5 Gal |
| Seams & Flashing | A-200 Flashing | A-200 Flashing | Silicone Roof Sealant | Silicone Roof Sealant | Silicone Roof Sealant |
| Base Coat | A-300 Base | A-300 Base | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 1st Coat per Sq | 1.5 Gal | 1.5 Gal | Base coats are not required. Single-pass applications are recommended. | | |
| Wet Mil Thickness | 24 | 24 | | | |
| Dry Mil Thickness | 12 | 12 | | | |
| Finish Coat | A-300 Finish | A-300 Finish | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 2nd Coat per Sq | 1.5 Gal | 1 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| 3rd Coat per Sq | – | 1 Gal | – | – | – |
| Wet Mil Thickness | 24 | 32 | 24 | 32 | 40 |
| Dry Mil Thickness | 12 | 16 | 22 | 30 | 38 |
| Total Minimum Requirements | | | | | |
| Gallons per Square | 3 Gal | 3.5 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| Dry Mil Thickness | 24 | 28 | 22 | 30 | 38 |

APPLICATION METHODS:



Airless Sprayer



Roller



Brush



DESIGN POINT: MEMBRANE SWELLING

EPDM membrane is very durable with excellent weathering properties, but poor chemical resistance to solvents. Many solvents make EPDM membrane swell and deteriorate. Mule-Hide recommends acrylics and silicones on EPDM.

ROOF COATING RESTORATION COMPARISONS OVER:

EPDM ROOFS

| Attribute | Acrylic | | Silicone | | |
|-------------------------------|---|-----------------------|--|-----------------------|-----------------------|
| Resistance to Ponding Water | Fair | | Very Good | | |
| Permeable | Yes | | Yes | | |
| Primer Required | No | | No | | |
| Low-Temperature Restrictions | Installation temperatures must be above 45°F for 48 consecutive hours | | Installation temperatures must be above 40°F | | |
| High-Temperature Restrictions | Do not exceed 110°F | | Do not exceed 120°F | | |
| Re-Coat Time | 12 hours | | 2-4 hours | | |
| Strong Odor | No | | Mild | | |
| System | Acrylic | | Silicone | | |
| Warranty | 10 yr | 15 yr | 10 yr | 15 yr | 20 yr |
| Clean | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) |
| Coverage per Sq | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal |
| Primer | Not Required | Not Required | Not Required | Not Required | Not Required |
| Seams & Flashing | A-200 Flashing | A-200 Flashing | Silicone Roof Sealant | Silicone Roof Sealant | Silicone Roof Sealant |
| Base Coat | A-300 Base | A-300 Base | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 1st Coat per Sq | 1.5 Gal | 1.5 Gal | Base coats are not required. Single-pass applications are recommended. | | |
| Wet Mil Thickness | 24 | 24 | | | |
| Dry Mil Thickness | 12 | 12 | | | |
| Finish Coat | A-300 Finish | A-300 Finish | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 2nd Coat per Sq | 1.5 Gal | 1 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| 3rd Coat per Sq | – | 1 Gal | – | – | – |
| Wet Mil Thickness | 24 | 32 | 24 | 32 | 40 |
| Dry Mil Thickness | 12 | 16 | 22 | 30 | 38 |
| Total Minimum Requirements | | | | | |
| Gallons per Square | 3 Gal | 3.5 Gal | 1.5 Gal | 2 Gal | 2.5 Gal |
| Dry Mil Thickness | 24 | 28 | 22 | 30 | 38 |

APPLICATION METHODS:



Airless Sprayer



Roller



Brush



DESIGN POINT: RUST & SKYLIGHTS

Metal panels must be structurally sound to provide a safe work environment and suitable surface for coating application. Acrylics and silicones require treating rust before coating. Fiberglass skylights are a safety hazard to roof workers. Never coat a skylight the same color as the roof.

ROOF COATING RESTORATION COMPARISONS OVER:

METAL ROOFS

| Attribute | Acrylic | | | Silicone | | |
|-------------------------------|---|-----------------------|-----------------------|--|-----------------------|-----------------------|
| Resistance to Ponding Water | Fair | | | Very Good | | |
| Permeable | Yes | | | Yes | | |
| Primer Required | No | | | No | | |
| Low-Temperature Restrictions | Installation temperatures must be above 45°F for 48 consecutive hours | | | Installation temperatures must be above 40°F | | |
| High-Temperature Restrictions | Do not exceed 110°F | | | Do not exceed 120°F | | |
| Re-Coat Time | 12 hours | | | 2-4 hours | | |
| Strong Odor | No | | | Mild | | |
| System | Acrylic | | | Silicone | | |
| Warranty | 10 yr | 15 yr | 20 yr | 10 yr | 15 yr | 20 yr |
| Clean | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) | 115 Cleaner (diluted) |
| Coverage per Sq | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal | 1/4-1/2 Gal |
| Prime Rust Areas | A-125 Primer | A-125 Primer | A-125 Primer | A-125 Primer | A-125 Primer | A-125 Primer |
| Coverage per Sq | 1/2 Gal | 1/2 Gal | 1/2 Gal | 1/2 Gal | 1/2 Gal | 1/2 Gal |
| Seams & Flashing | A-200 Flashing | A-200 Flashing | A-200 Flashing | Silicone Roof Sealant | Seal-Fast Liqui-Flash | Seal-Fast Liqui-Flash |
| Base Coat | A-300 Base | A-300 Base | A-300 Base | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 1st Coat per Sq | 1 Gal | 1 Gal | 1.5 Gal | Base coats are not required. Single-pass applications are recommended. | | |
| Wet Mil Thickness | 16 | 16 | 24 | | | |
| Dry Mil Thickness | 8 | 8 | 12 | | | |
| Finish Coat | A-300 Finish | A-300 Finish | A-300 Finish | 100% Silicone Coating | 100% Silicone Coating | 100% Silicone Coating |
| 2nd Coat per Sq | 1 Gal | 1.5 Gal | 1.5 Gal | 1.5 Gal | 1.5 Gal | 2 Gal |
| Wet Mil Thickness | 16 | 24 | 24 | 24 | 24 | 32 |
| Dry Mil Thickness | 8 | 12 | 12 | 22 | 22 | 30 |
| Total Minimum Requirements | | | | | | |
| Gallons per Square | 2 Gal | 2.5 Gal | 3 Gal | 1.5 Gal | 1.5 Gal | 2 Gal |
| Dry Mil Thickness | 16 | 20 | 24 | 22 | 22 | 30 |

APPLICATION METHODS:



Airless Sprayer



Roller



Brush

ACRYLIC COATINGS

SPRAY EQUIPMENT MINIMUM REQUIREMENTS

- **Cleaning:** Properly clean and store all equipment and hoses after each use.
- **Pump:** Airless spray rig with a minimum material output of 2 gallons per minute at 3000 psi.
- **Hoses:** Maximum 300' of high-pressure material hose. Hose inside diameters (ID) are available from 1/2" to 1/4". Whip hose length should be one ID size smaller than rest of hose length.
- **Spray Gun:** Airless spray gun must be equipped with swivel for handling ease. Gun must also be equipped with a Reverse-A-Clean nozzle.
- **Spray Tips:** .025" - .035" orifice size recommended, with a wide-angle fan pattern. Ideal orifice size varies with weather conditions. Always have spray tips at project site within the recommended orifice size range. Always use wet film gauge to determine the proper mil thickness.



A-300 FINISH

CRRC® rated, highly-elastomeric coating, that has exceptional durability and UV stability that extends roof life. Attractive bright white reduces energy consumption. Apply by brush, roller or airless sprayer.



A-310 FINISH

Forms a seamless and flexible layer of protection for your roof. This durable coating is designed to seal and dramatically reduce surface temperatures. It is formulated with UV-reactive chemicals for enhanced film-forming characteristics and dirt pickup-resistance remaining bright white after weathering.

| Product Code | Color | Description | Coverage | Shelf Life |
|--------------|--------------|-----------------|-------------------|------------|
| 16MHA3005 | White | 5 Gallon Pail | See Specification | 1 Year |
| 16MHA30050 | | 50 Gallon Drum | | |
| 16MHA300TO | | 275 Gallon Tote | | |
| 16MH3005GY | Gray | 5 Gallon Pail | | |
| 16MH3050GY | | 50 Gallon Drum | | |
| 16MH300TOG | | 275 Gallon Tote | | |
| 16MHA3005T | Tan | 5 Gallon Pail | | |
| 16MH300T50 | | 50 Gallon Drum | | |
| 16MH300TOT | | 275 Gallon Tote | | |
| 16MH3005BK | Black | 5 Gallon Pail | | |
| 16MH3050BK | | 50 Gallon Drum | | |
| 16MH300TOB | | 275 Gallon Tote | | |
| 16MHA3005S | Santa Fe Tan | 5 Gallon Pail | | |
| 16MHA3050S | | 50 Gallon Drum | | |
| 16MHA30TOS | | 275 Gallon Tote | | |

| Product Code | Color | Description | Coverage | Shelf Life |
|--------------|--------------|-----------------|-------------------|------------|
| 16MHA3105 | White | 5 Gallon Pail | See Specification | 1 Year |
| 16MHA31050 | | 50 Gallon Drum | | |
| 16MHA310TO | | 275 Gallon Tote | | |
| 16MHA3105G | Gray | 5 Gallon Pail | | |
| 16MHA3150G | | 50 Gallon Drum | | |
| 16MHA31TOG | | 275 Gallon Tote | | |
| 16MHA3105T | Tan | 5 Gallon Pail | | |
| 16MHA3150T | | 50 Gallon Drum | | |
| 16MHA31TOT | | 275 Gallon Tote | | |
| 16MHA3105B | Black | 5 Gallon Pail | | |
| 16MHA3150B | | 50 Gallon Drum | | |
| 16MHA31TOB | | 275 Gallon Tote | | |
| 16MHA3105S | Santa Fe Tan | 5 Gallon Pail | | |
| 16MHA3150S | | 50 Gallon Drum | | |
| 16MHA31TOS | | 275 Gallon Tote | | |



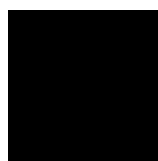
White



Gray



Tan



Black



Santa Fe Tan

**Colors shown are representative of product. Actual colors may vary.*



A-320 FINISH

Can be used as either a base or surface coat. This product has excellent adhesion to sprayed polyurethane foam (SPF) and a variety of other construction and roofing substrates. It can exceed the expected tensile strength of typical acrylic roof coatings. This product provides excellent durability and dirt pickup resistance.

| Product Code | Description | Coverage | Shelf Life |
|--------------|-----------------|-------------------|------------|
| 16MHA3205 | 5 Gallon Pail | See Specification | 1 Year |
| 16MHA32050 | 50 Gallon Drum | | |
| 16MHA320T0 | 275 Gallon Tote | | |



A-200 FLASHING

Highly flexible sealant for seams, penetrations, flashings, metal roof fasteners, and other areas to fill voids in the substrate. Brushed or extruded application.

| Product Code | Description | Coverage | Shelf Life |
|--------------|----------------------------------|---|------------|
| 16MHA2002 | 2 Gallon Pail - White | 75-100 Lin. Ft Seams/ 300-400 Fastener Heads | 1 Year |
| 16MHA2005 | 5 Gallon Pail - White | | |
| 16MH2002FW | 2 Gallon Pail - Fibrated - White | | |
| 16MH2005FW | 5 Gallon Pail - Fibrated - White | | |
| 16MH2002FT | 2 Gallon Pail - Fibrated - Tan | | |
| 16MH2005FT | 5 Gallon Pail - Fibrated - Tan | | |



A-125 METAL ROOF PRIMER

Zinc-rich, dark yellow color for easy-to-see coverage. Improves adhesion of finish coating while encapsulating rust and inhibiting new rust. Apply by brush, roller or airless sprayer.

| Product Code | Description | Coverage | Shelf Life |
|--------------|-----------------|-------------------|------------|
| 16MHA1255 | 5 Gallon Pail | 1/2 Gallon per Sq | 1 Year |
| 16MHA12550 | 50 Gallon Drum | | |
| 16MHA125T0 | 275 Gallon Tote | | |



A-300 BASE

Apply to non-corroded metal, modified bitumen, asphalt BUR, PVC, EPDM, Hypalon, polyurethane foam and concrete roofs. A high degree of rubber-like elasticity allows wide swings in temperature and significant building movement. A-300 Base provides a well-bonded surface for the application of A-300 FINISH coat.

| Product Code | Description | Coverage | Shelf Life |
|--------------|-----------------|--------------------|------------|
| 16MHA3BC5 | 5 Gallon Pail | 1.5 Gallons per Sq | 1 Year |
| 16MHA3BC50 | 50 Gallon Drum | | |
| 16MHA3BCT0 | 275 Gallon Tote | | |



A-300 BASE TPO

An all-acrylic polymer-based coating designed for improved adhesion to the surface of suitably cleaned, weathered (minimum 4 years) TPO (thermoplastic polyolefin) roofing membranes and flashings. When applied to a properly cleaned, weathered TPO roof, A-300 BASE TPO provides a well-bonded light blue surface for the application of A-300 FINISH coat.

| Product Code | Description | Coverage | Shelf Life |
|--------------|-----------------|--------------------|------------|
| 16MHA3BT5 | 5 Gallon Pail | 1.5 Gallons per Sq | 1 Year |
| 16MHA3BT50 | 50 Gallon Drum | | |
| 16MHA3BT0 | 275 Gallon Tote | | |



MP LIQUID SEALANT

A 100% solids, non-shrink, one-part polyurethane pourable sealer. Use with metal roof seams and fasteners, gutters, damaged polyurethane foam and roof projections on PVC, EPDM, primed TPO, primed Mod Bit and primed BUR roofing systems.

| Product Code | Description | Carton | Shelf Life |
|--------------|-----------------------|--------------------|------------|
| 08MHMPLS2W | 12 oz Sausage - White | 20 - 12oz Sausages | 1 Year |
| 08MHMPLS2B | 12 oz Sausage - Black | | |
| 08MHMPLS2G | 12 oz Sausage - Gray | | |



115 CLEANER - Concentrate

Highly effective cleaner removes dirt and deposits commonly found on roof decks. Apply with a 2000-psi power washer to cut through grease and rinse away. Apply by low-pressure sprayer.

*Please refer to PDS for diluting instructions

| Product Code | Description | Coverage | Shelf Life |
|--------------|----------------|-----------------------|------------|
| 16MHA1151 | 1 Gallon Pail | 1/4-1/2 Gallon per Sq | 1 Year |
| 16MHA1155 | 5 Gallon Pail | | |
| 16MHA11555 | 55 Gallon Drum | | |

SILICONE COATINGS

SPRAY EQUIPMENT MINIMUM REQUIREMENTS

- **Cleaning:** Properly clean and store all equipment and hoses after each use.
- **Pump:** Graco 933es Hi Flo spray rig with a minimum material output of 4 gallons per minute at 3000 psi. Pump lower must be set to maximum lower-ball travel.
- **Hoses:** Maximum 250' of high-pressure (7250 psi) material hose, 3/4" ID with a 1/2"x 25' whip. Whip hose should be one ID size smaller than rest of hose length.
- **Spray Gun:** EHF Spray Gun (7250 psi) equipped with a Reverse-A-Clean nozzle.
- **Spray Tips:** XDF 7250 psi tip (.029" - .035") with recommended pressure at the gun should be 3000 psi while spraying.
- **Transfer Pump:** Monarch 5:1 pneumatic pump requires the use of an air compressor capable of delivering 20 CFM @ 90 psi.



100% SILICONE ROOF COATING

Is a 100% silicone based, single-part roof coating that creates a barrier that is durable, elastic, resistant to weathering, breathable, watertight, and weatherproof. 100% Silicone Roof Coating is manufactured from durable inorganic silicone resins, reinforcing and reflective pigments and silane adhesions promoters.



SILICONE LS ROOF COATING

A ready-to-use, solvent borne, moisture cure silicone roof coating, which cures to form a seamless membrane when applied over the entire roof area. It also keeps the surface cool, providing protection from ultraviolet sun and other weather exposures.

| Product Code | Color | Description | Coverage | Shelf Life |
|--------------|--------------|----------------|---------------------------------|------------|
| 16MHSIRC5 | White | 5 Gallon Pail | Minimum 1.5 Gallon per Sq | 2 Years |
| 16MHSIRC55 | | 55 Gallon Drum | | |
| 16MHSIRC5G | Gray | 5 Gallon Pail | | |
| 16MHSIR55G | | 55 Gallon Drum | | |
| 16MHSIRC5T | Tan | 5 Gallon Pail | | |
| 16MHSIR55T | | 55 Gallon Drum | | |
| 16MHSIRC5B | Black | 5 Gallon Pail | | |
| 16MHSIR55B | | 55 Gallon Drum | | |
| 16MHSIR5S | Santa Fe Tan | 5 Gallon Pail | | |
| 16MHSIR55S | | 55 Gallon Drum | | |

| Product Code | Description | Coverage | Shelf Life |
|--------------|-----------------------|---------------------------------|------------|
| 16MHSIRL5W | 5 Gallon Pail - White | Minimum 1.5 Gallon per Sq | 1 Year |
| 16MHSIRL5G | 5 Gallon Pail - Gray | | |



100% SILICONE SEALANT

Is a high-solids non-shrinking moisture-cure silicone sealant that has minimal odor, contains no solvents and has less than 10 grams per liter VOC. Provides excellent adhesion to concrete, masonry, polyurethane foam, EPDM, TPO, aged PVC, aged acrylic coatings, granular cap sheet, wood, metals, Kynar® finishes and most other common building materials. Si TPO Primer is required for TPO roof membranes.

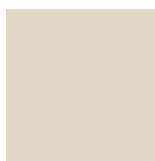
| Product Code | Description | Coverage | Shelf Life |
|--------------|-------------------------|----------------------|------------|
| 16MHSISECL | 1 tube (30/ctn) - Clear | See Specification | 2 Years |
| 16MHSISEWH | 1 tube (30/ctn) - White | | |
| 16MHSISEA2 | 2 Gallon Pail - White | | |



White



Gray



Tan



Black



Santa Fe Tan

**Colors shown are representative of product. Actual colors may vary.*



LIQUI-FLASH

Is semi-self-leveling so it can be used to seal seams and affect repairs on single-ply membranes at any slope. It may also be used to fill pitch pockets and pans, seal gutters and metal roof seams & fasteners with minimal tooling.



MULTIBASE SB

Light yellow primer for concrete, modified bitumen, asphalt BUR, PVC, EPDM and Hypalon roof surfaces prior to applying 100% Silicone Roof Coatings. Do not use on coal-tar-pitch roofs, TPO membranes or any areas of ponding water.

| Product Code | Description | Carton | Weight | Shelf Life |
|--------------|-------------------------|--------|---------|------------|
| 16MHLFWH10 | 10 oz Tube - White | 30/ctn | 37 lbs. | 2 years |
| 16MHLFWH20 | 20 oz Sausage - White | 20/ctn | 44 lbs. | |
| 16MHLFWH1 | 1 Gallon Pail - White | 1 pail | 9 lbs. | |
| 16MHLFWH35 | 3.5 Gallon Pail - White | 1 pail | 31 lbs. | |
| 16MHLFBK10 | 10 oz Tube - Black | 30/ctn | 37 lbs. | |
| 16MHLFBK20 | 20 oz Sausage - Black | 20/ctn | 44 lbs. | |
| 16MHLFBK1 | 1 Gallon Pail - Black | 1 pail | 9 lbs. | |
| 16MHLFBK35 | 3.5 Gallon Pail - Black | 1 pail | 31 lbs. | |
| 16MHLFGY10 | 10 oz Tube - Gray | 30/ctn | 37 lbs. | |
| 16MHLFGY20 | 20 oz Sausage - Gray | 20/ctn | 44 lbs. | |
| 16MHLFGY1 | 1 Gallon Pail - Gray | 1 pail | 9 lbs. | |
| 16MHLFGY35 | 3.5 Gallon Pail - Gray | 1 pail | 31 lbs. | |

| Product Code | Description | Coverage | Shelf Life |
|--------------|----------------|-----------------|------------|
| 16MHMB5B5 | 5 Gallon Pail | 1 Gallon per Sq | 1 Year |
| 16MHMB5B50 | 50 Gallon Drum | | |



115 CLEANER - Concentrate

Highly effective cleaner removes dirt and deposits commonly found on roof decks. Apply with a 2000-psi power washer to cut through grease and rinse away. Apply by low-pressure sprayer.

*Please refer to PDS for diluting instructions



SI TPO PRIMER

Promotes adhesion with 100% Silicone Roof Coating to new and aged TPO roofing membranes. Manufactured from fast-evaporating solvents and adhesive resins. Primer has a blue tint to allow applicator to better gauge application rates.

| Product Code | Description | Coverage | Shelf Life |
|--------------|----------------|-----------------------|------------|
| 16MHA1151 | 1 Gallon Pail | 1/4-1/2 Gallon per Sq | 2 Years |
| 16MHA1155 | 5 Gallon Pail | | |
| 16MHA11555 | 55 Gallon Drum | | |

| Product Code | Description | Coverage | Shelf Life |
|--------------|------------------------------------|----------------------|------------|
| 16MHSITPRP | 1 Pint w/ brush applicator (clear) | 1 pint per square | 2 Years |
| 16MHSITPR1 | 1 Gallon Pail (blue) | 1 Gallon per 8-10 Sq | |
| 16MHSITPR5 | 5 Gallon Pail (blue) | | |



TIETEX 272 POLY FABRIC

Tietex 272 is 100% polyester stitch-bonded fabrics made without the use of adhesives. With unique elongation, quick wet-out and saturation.

| | Product Code | Description | Weight |
|-------------------------------|--------------|---------------------|--------|
| Tietex 272 Poly Fabric | 09MHTT2063 | 1 roll - 6" X 300' | 4 lbs |
| | 09MHTT2123 | 1 roll - 12" X 300' | 7 lbs |
| | 09MHTT2403 | 1 roll - 40" X 324' | 25 lbs |

NOTES

This image shows a full page of blank, lined paper. It features approximately 28 horizontal grey lines spaced evenly apart, typical of standard notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings present.

A blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There is a small dark mark in the top left corner.



“The name trusted in roofing since 1906”

Customer Line: 800-786-1492 • www.mulehide.com



The information herein should not be considered all-inclusive and should always be accompanied by a review of the Mule-Hide specifications and guidelines and good application practices.

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Visit the Mule-Hide website at www.mulehide.com prior to any installation for updated technical specifications and details. Mule-Hide is a U.S. registered trademark. All rights reserved.



Product Data Sheet

100% SILICONE ROOF COATING

PRODUCT DESCRIPTION

Rev: April 2023

100% Silicone Roof Coating is a premium grade high solid, moisture cure, liquid applied silicone coating which cures to form a seamless membrane when applied over the entire roof area. It also keeps the surface cool, providing protection from ultraviolet sun and other weather exposures.

BASIC USES

Designed for use on existing smooth surface BUR, granulated cap sheets, well adhered acrylic coatings, concrete, metal, sprayed in place polyurethane foam (SPF) and various single-ply roofing membranes. Primer may be required. Contact Mule-Hide Technical Services for clarification of unusual surfaces or project conditions.



FEATURES AND BENEFITS

- Excellent resistance to weathering including UV radiation, extreme temperatures, as well as rain, ice, and snow.
- Extends the useful life of the roof.
- 100% Silicone Roof Coating can reduce energy costs by decreasing roof surface temperature.
- Fungal and algal resistant – even in high temperatures.
- With high solids content and absence of hydrocarbon solvents, 100% Silicone Roof Coating can be applied in excess of 40 wet mils in a single coat without blistering, while maintaining maximum adhesion.

TYPICAL PHYSICAL PROPERTIES

| Physical Property* | Test Method | Value |
|--|---------------------------------------|------------|
| Accelerated Weathering @ 5000 hr (pass/fail) | ASTM D6694 | pass |
| Permeance (perms) | ASTM E96 (procedure B) | 10.7 |
| Elongation (%) | ASTM D412 | 237 |
| Tensile Strength (psi) | ASTM D412 | 247 |
| Hardness (Shore A) | ASTM D2240 | 87 |
| Solids Volume (%) | ASTM D2369 | 92 ± 3 |
| Temperature Stability Range (°F) | | -35 to 212 |
| Tack-free time (hrs, subject to temp/humidity) | | 1– 2 |
| VOC (gm/l) | Calculated | < 50 |
| Flash Point (°F) | PMCC | 141 |
| Initial Solar Reflectivity | ASTM C1549 | 89 |
| Initial Thermal Emissivity | ASTM C1371 | 90 |
| SRI Value | Calculated | 113 |
| Colors | White, Light Grey, Dark Grey, and Tan | |
| *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 range for any particular property of this product. | | |

PACKAGING

Container sizes: 5 gallon pails, 55 gallon drums

APPLICATION INSTRUCTIONS

The chemistry of silicone, which Mule-Hide Silicone roof coatings are manufactured with, is not adversely affected by ponding water or prolonged rain exposure when applied at recommended minimum specified thicknesses. Please be advised that good roofing practices, Building Codes and The National Roofing Contractors Association (NRCA) consider ponding water on any roof undesirable and recommend that all roof systems be designed and

100% SILICONE ROOF COATING

built to ensure positive drainage (See the NRCA Roofing and Waterproofing Manual and any applicable Code Ordinances).

Surface Preparation

- Surfaces to be coated with 100% Silicone Roof Coating must be properly prepared. All surfaces must be clean dry and free of loose particles.
- All aluminum coatings must be completely removed prior to coating.
- Repair metal and non-metal flashings, edges, drains, valleys, and through-roof penetrations.
- Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar-based products or metal having Kynar® finishes.
- Any substrate where there is a question related to the ability of a Mule-Hide coating to properly adhere should have an adhesion test performed following the procedures in Mule-Hide Technical Bulletin 07-1803.
- This coating is a one-part, ready-to-use material that can be applied easily to a dry, clean, frost-free surface and cures at normal temperature and humidity levels in 1 to 4 hours by reacting with moisture in the air. For applications with lower than normal temperatures and humidity levels, expect the cure time to be longer.

Mixing

1. Mechanically mix 100% Silicone Roof Coating prior to use.
2. Avoid entraining air while mixing.
3. Do not thin.

Application

- Stir well prior to application.
- 100% Silicone Roof Coating is recommended to be applied with high pressure sprayer for best appearance and coverage. It may also be applied by roller or brush applications.
- 100% Silicone Roof Coating can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion.

Application instructions are basic guidelines only. Please read and understand the complete Mule-Hide specifications for this product prior to use.

Application Equipment

- This product may be sprayed, brushed, or rolled. Due to the high viscosity of the material, a high-pressure airless paint pump capable of producing 3500 PSI should be used. The pump should have a minimum of 3 gallons per minute output. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.
- DO NOT USE hose that has been used for Acrylics or other waterborne coatings as the liner absorbs moisture and initiates the silicone cure process.

PRECAUTIONS

- Avoid prolonged contact with skin or fumes. If irritation occurs seek medical attention.
- Use of proper personal protection equipment such as gloves or respirators should be used as appropriate
- Keep out of reach of children
- For professional use only
- Read SDS prior to 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**

Storage and Cleaning

100% SILICONE ROOF COATING

- Shelf life is 24 months if stored in original unopened containers.
- All containers should be sealed when not in use.
- Keep from freezing.
- Store between 40°F and 80°F
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Uncured silicone coating can be cleaned up and equipment can be flushed with VM&P Naphtha or Mineral Spirits.

For Professional Use Only - Keep out of the reach of children.

MANUFACTURING FACILITIES

- New Albany, IN 47150

RADIATIVE PROPERTIES

| DESCRIPTION | INITIAL VALUE | AGED VALUE |
|---|---------------|------------|
| CRRC Rated Product ID#: 0670-0022 | | |
| CRRC solar reflectance (smooth) | 0.89 | 0.73 |
| CRRC initial thermal emittance (smooth) | 0.89 | 0.88 |
| Solar Reflectance Index (SRI) | 112 | 89 |
| *The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit Coolroofs.org for important information and disclaimers about CRRC rating requirements and limitations. For purposes of CRRC rating, a rough surface is a surface that is equally coarse to coarser than a new (i.e. unweathered) #11 granulated modified bitumen sheet. The Cool Roof Rating Council (CRRC) does not specify minimums for reflectance or emittance but they do require specific protocols for testing and reporting. Cleaning of the aged roof surface is not permitted for determination of radiative properties after 3 years. | | |

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 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. The information reported herein is based upon information reasonably available to Mule-Hide Products Co., Inc. at the time of publication, and is presented in good faith but are not to be construed as warranties or guarantees, expressed or implied. 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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Product Data Sheet

115 CLEANER

DESCRIPTION

Revision Date: Oct 2018

115 CLEANER by Mule-Hide is a ready-to-use, environmentally friendly cleaner that is excellent at removing dirt, oil, and grease from a variety of surfaces.

BASIC USES

115 CLEANER is used as a general purpose cleaner prior to the coating of approved surfaces with Mule-Hide Coatings Systems. Power washing with 115 CLEANER effectively removes existing oil, dirt, or grease that would adversely affect the bonding of new coatings, and prepares those surfaces for the new primer / coating.



PACKAGING

Packaging is standard in 5 gallon pails and 50 gallon drums.

STORAGE & HANDLING

- One year shelf life with proper storage.
- All materials are to be stored at not less than 45°F.

APPLICATION

1. All loose existing coatings, heavy rust, debris and fresh roof cement shall be removed prior to applying 115 cleaner.
2. Apply to surface with a garden type sprayer in sufficient quantity to wet out the surface for a minimum of 15 minutes without drying.
3. Apply at a minimum rate of 0.25 to 0.50 gallon per 100 square feet. Do not allow product to dry on roof surface.
4. Thoroughly power wash 115 CLEANER from surface until rinse water is clean. A final clean water rinse is recommended. This effectively removes existing oil, dirt, or grease that would adversely affect the bonding of acrylic coatings. Excessively soiled / greasy surfaces and rust or scale may require additional cleaning or scrubbing with a broom or brush.
5. EPDM substrates are properly cleaned when no black residue is present when swiping a finger or white cloth over the cleaned membrane.

PRECAUTIONS

Mule-Hide 115 CLEANER is a highly alkaline material. WEAR CHEMICAL SPLASH GOGGLES when applying 115 CLEANER. As with all chemicals, use caution and good industrial hygiene when handling and disposing of empty 115 CLEANER containers and ensure proper drainage for 115 CLEANER and rinse water run-off from the roof. The diluted 115 CLEANER rinse water can be safely discharged onto the ground surface. If in doubt, always contact the local authorities prior to discharging to the soil surface. Never discharge 115 CLEANER (nor the rinse water generated) directly into any open body of water. Refer to the 115 CLEANER SDS for additional information or contact Mule-Hide Technical Department, 800-786-1492.

CLEAN UP

Tools, hoses and equipment must be flushed and cleaned immediately with water.

Product Data Sheet

115 CLEANER

PROTECTION & SAFETY

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SB 300 FF #50300

Typical Physical Properties

| Property | Unit of Measure | Typical Value |
|---------------------------|-----------------|---------------|
| Weight | osy | 2.75 |
| Tensile Elongation | % | |
| length | | 18.42 |
| width | | 68.04 |
| Tensile/Breaking Strength | lbf | |
| length | | 65.15 |
| width | | 28.92 |
| Tear Strength | lbf | |
| length | | 15.77 |
| width | | 18.24 |
| Bursting Strength | lb/sq in | 96.6 |

Reviewed
04-10-2018

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SB 300 FM #50311

Typical Physical Properties

| Property | Unit of Measure | Typical Value | Test Method |
|--------------------|-----------------|---------------|---------------------------|
| Weight | osy | 2.75 | ASTM D3776-96 (Opt. C) |
| Elongation | % | | ASTM D5034-95 |
| MD | | 16.4 | |
| CD | | 83.6 | |
| Tensile | lbf | | ASTM D5034-95 |
| MD | | 55.9 | |
| CD | | 48.4 | |
| Trap Tear Strength | lbf | | ASTM D5587-03 |
| MD | | 13.2 | |
| CD | | 15.1 | |
| Mullen Burst | lbs/sq in | 109.7 | ASTM D3786-01 |

Reviewed
12-20-2017

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TIETEX

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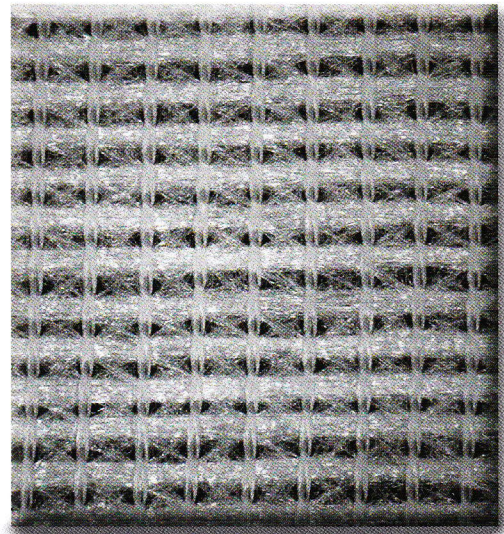
DATA SHEET POLYESTER COLD PROCESS ROOFING FABRICS T272, T254, T325, T326

Tietex stitchbonded polyester is one of the strongest materials available to the roofing industry for use as reinforcement in cold process roofing.

Stitchbonding offers an unusual combination of high strength properties with good elongation for excellent thermal stress force accommodations.

Styles T272 and T325 are soft polyesters that will readily conform to embedded gravel and standing seam metal roof decks. It is also much easier to handle and apply properly than other soft polyester sheets.

T254 and T326 are also stitchbonded polyesters but have a firm finish to reduce wrinkles during application on smooth roof decks.



AVERAGE TYPICAL PROPERTIES**

| | Test Method | T272 | T254 | T325 | T326 |
|------------------------------|-------------|------------|------------|---------------|--------------|
| Weight | | 3-oz/sq yd | 3-oz/sq yd | 2.75-oz/sq yd | 2.9-oz/sq yd |
| Tensile | ASTM D 1682 | 57.1 lbs* | 75.3 lbs* | 31.6 lbs* | 41 lbs* |
| Elongation | ASTM D 1682 | 61.65%* | 44.25%* | 40.6%* | 25.8%* |
| Mullen Burst | ASTM D 3786 | 176.8 lbs | 139.0 lbs | 99.6 lbs | 127 lbs |
| Trapezoid (Tear Strength) | ASTM D 1117 | 16.1 lbs | 17.4 lbs | 13.2 lbs* | 14.2 lbs* |

*Average machine and cross machine direction.

**These average typical properties are the average results of random tests conducted on this fabric by an independent testing laboratory. They are not to be construed as performance specifications. This document reports accurate and reliable information to the best of our knowledge, but our suggestions and recommendations cannot be guaranteed because the conditions of use are beyond our control. Information presented herein is given without reference to any patent questions which may be encountered in the use thereof. Such questions should be investigated by those using this information. Tietex Corporation assumes no responsibility for the use of information presented herein and hereby expressly disclaims all liability in regard to such use.

ROOF COATINGS

Tietex styles T272, T254, T325 and T326 are being used extensively with solvent-based asphalt roof coatings and water-based emulsion asphalt roof coatings. In addition, T272 is being used widely with acrylic latex and other elastomeric coatings.

Due to the diversity of roof coating formulations, it is always best to test any reinforcement with the specific coating to be applied prior to roof jobs.

PACKAGING

T272, T254, T325 and T326 are packaged as follows:

Roll Size—10.8 squares gross, 10.0 squares net applied (3" single-ply overlap).

Roll Dimensions—40-inches wide x 324 feet long, with lap lines for one and two ply application.

Roll Weight—about 25 pounds.

Quantity—25 rolls to a pallet.



TIETEX

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A BUSINESS UNIT OF TIETEX INTERNATIONAL
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Product Data Sheet

MULTIBASE SB

PRODUCT DESCRIPTION

Rev. April 2023

Multibase SB is a primer and stain blocker for use on approved substrates/surfaces prior to the application of the 100% Silicone Roof Coating. This allows for improved adhesion. It is formulated to a relatively thin viscosity which allows for excellent penetration on most roof surfaces. This is a water-based material and must be kept from freezing.

BASIC USES

Multibase SB is intended for application as a primer to concrete, modified bitumen, asphalt BUR, PVC, EPDM and Hypalon roof surfaces prior to applying the 100% Silicone Roof Coatings. Do not use on coal-tar-pitch roofs, TPO membranes or any areas of ponding water. Contact Mule-Hide's Technical Services Department for additional information.

TYPICAL PHYSICAL PROPERTIES

| Property* | Method | Value |
|--|---------------------------|--------|
| Viscosity (cP) | Brookfield@ 4d/5 RPM/77°F | 11,000 |
| Weight / gal (lb) | ASTM D2939 | 9.3 |
| Solids Weight (%) | ASTM D1644 | 48 |
| Solids Volume (%) | ASTM D2697 | 44 |
| VOC (gm/L) | Calculated | < 10 |
| *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 range for any particular property of this product. | | |

COLORS

The standard color is Mint Green.

PACKAGING

Packaging is standard in 5-gallon pail (18.9 Liter), 55-gallon drum (208.1 Liter).

ALL ACRYLIC COATINGS MUST BE PROTECTED FROM FREEZING AT ALL TIMES.

APPLICATION EQUIPMENT

Application may be by brush, roller, or airless spray.

1. Brush: Suitable for small areas and flashings. Use a soft bristle paint brush.
2. Roller: Recommended when coating small areas. Use a medium (1/2") or a long (1.0") napped roller.
3. Airless Spray Equipment: Multibase SB can be applied by conventional airless spray equipment designed for the purpose of field application of fluids, paints and coatings. The following minimums are recommended:
 - Pump: 1.6 gal/min output; 2,500 psi
 - Gun/Tip: Airless handgun. Reversible tip with orifice sizes ranging from 0.19—0.25 and a fan angle of 40° or 50°.
 - Hose: Minimum inside diameter of high-pressure nylon hose of 3/8" to 100'; for any hose over 200' the inside diameter should be 1/2".
 - Refer to equipment manufacturer product guidelines.

Product Data Sheet

MULTIBASE SB

APPLICATION

Application Temperatures

- Temperature of surfaces to be coated should be above 40°F and rising and below 110°F. Do not apply material if the humidity is greater than 90% or there is a threat of rain within 48 hours. Do not apply if there is a chance that ambient temperatures may drop below 45°F within 48 hours after application.
- Check weather conditions prior to start of work. Mule-Hide Acrylic Coatings require complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply if weather conditions will not permit complete cure before rain, dew or freezing temperatures.

Surface Preparation

- All 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.
- Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.
- Existing roof systems to be visually inspected for conditions that may adversely affect adhesion or performance of newly installed products. Repair any visible deficiencies such as splitting blistering and buckling prior to the installation of the coating system.
- Visually inspect all metal and non-metal flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.
- **Do not apply** to wet or visibly damp surfaces, surfaces previously covered with coal tar-based products, Kynar® finishes, TPO membranes or any areas of ponding water.
- Concrete surfaces cured with wax/resin-based compounds can inhibit adhesion.

Installation

- Mechanically mix before using.
- All surfaces to be coated with the Multibase SB must be power washed clean with Mule-Hide 115 Cleaner and allowed to dry. The surface may be damp but must be free of all standing water.
- Surface temperatures should be under 100°F to avoid premature curing.
- Apply with a soft bristle brush, roller or suitable spray equipment at the following recommended rates:

| Substrate | Coverage Rate* |
|---|-----------------------------|
| Galvanized Steel | 1/2 gallon per 100 sf |
| Aluminum | 1/2 gallon per 100 sf |
| Bituminous, granulated membranes | 2/3 – 1 gallon per 100 sf |
| Wood | 1/2 – 2/3 gallon per 100 sf |
| Concrete / Masonry | 1/2 – 2/3 gallon per 100 sf |
| Single-Plies (EPDM, TPO, PVC) | 1/2 – 1 gallon per 100 sf |
| *When applying over asphalt surfaces, more product may be required on alligatored or irregular surfaces. Irregular surfaces may require a prime coat to fill in and level the roof surface. | |

- Do not apply this product to any surfaces that pond water more than 48 hours. The service life will be severely diminished and adhesion failure can be expected.
- Mule-Hide recommends approximately 12 hours cure time between coats or the product should be sufficiently dry that foot traffic will not damage the coating. Multiple coats should always be applied within 72 hours of each coat to minimize or prevent contamination that would require additional cleaning.
- Protection of areas not intended to be coated, or items such as, skylights, HVAC units, etc., must be protected by masking or covering to prevent over spray or accidental coating. The applicator will be responsible for any material spills, spray drift, or over spray.
- Commencement of work by the contractor confirms his approval of the deck or existing roof surface.

Product Data Sheet

MULTIBASE SB

STORAGE AND CLEANING

- Product Shelf Life: Typically 18 months from date of manufacture when properly stored.
- Do not store at temperatures greater than 120°F.
- Store 24 hours at room temperature prior to application.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Do not allow product to freeze. Discard if any degree of freezing would occur.
- Keep containers covered when not in use.
- Clean equipment and over spray with water.
- Clean hands with waterless hand cleaner.

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.

DISCLAIMER

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Product Data Sheet

SEAL-FAST REPAIR HERO

Rev: Apr 2023

PRODUCT DESCRIPTION

Seal-Fast Repair Hero is a superior quality, paintable, high solids adhesive/sealant that forms a tough flexible seal between similar and dissimilar materials such as asphalt, modified bitumen, metal, Kynar®, concrete, TPO, PVC, Elvaloy®/PVC, Hypalon® (CSPE), PIB and EPDM roofs. Extremely strong and elastic with high elongation and tensile strength to ensure performance under conditions that cause asphalt-based cements to fail.



TYPICAL PHYSICAL PROPERTIES

| Physical Property | Value* |
|--|----------------|
| Viscosity | 500,000 cps |
| Solids by Weight | Approx 75% |
| Lap Shear | Approx 150 psi |
| Elongation | Approx 500% |
| Tensile Strength | 1700 psi |
| Hardness (Shore A) | 25-35 |
| *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 range for any particular property of this product. | |

PACKAGING

1 and 3 gallon containers

COLORS

White, Black, Gray

INSTALLATION INSTRUCTIONS

- Surface must be clean and sound.
- Apply with a roofer's trowel @ 1/8" thickness.
- Taper edges of the repair.
- Polyester fabric may be embedded for added strength.
- Over application on EPDM roofs may cause swelling of the EPDM membrane.

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)

CLEAN UP

Uncured sealant can be removed from work surfaces or tools with a solvent, such as naphtha. Use proper precautions when handling solvents. Cured sealant can be removed by cutting with a sharp-edged tool. Thin films of cured sealant can be removed by abrading.

STORAGE & HANDLING

Shelf Life: 9 months with proper storage (unopened containers at temperatures not exceeding 80°F).

SEAL-FAST REPAIR HERO

PROTECTION & SAFETY

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PRECAUTIONS

DANGER: FLAMMABLE LIQUID AND VAPOR

Contains xylene. Keep away from heat, sparks and open flames. Avoid prolonged breathing of vapors and repeated contact with skin. Use with adequate ventilation. Do not take internally. If accidentally swallowed, do not induce vomiting. Call a physician at once. See MSDS for additional Information.

Keep out of reach of children.

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Product Data Sheet

SILICONE SEALANT

Rev: Apr 2023

PRODUCT DESCRIPTION

Silicone Sealant is a silicone flashing compound designed for use at various flashing and through- roof penetration conditions. When installing Mule-Hide 100% silicone coating systems, use at details and where silicone is required to be applied vertically, such as parapet walls. The product will expand and contract with the movement of the roof surface and is resistant to UV degradation.

BASIC USES

100% Silicone Sealant is used for sealing and repairing roofs, masonry, architectural sheet metal and metal roof seams and fasteners.



TYPICAL PHYSICAL PROPERTIES

| Characteristic | Method | Typical Value |
|---|--------------|---------------|
| Elongation (%) | ASTM D412 | 379 |
| Tensile Strength (psi) | ASTM D412 | 235 |
| Solids weight (%) | ASTM D2697-3 | 92 ± 3 |
| Tack-Free Time (hours) | ASTM C679 | 1–2 |
| Cure Time (hours) | | 16–18 |
| VOC (g/l) | Calculated | < 50 |
| *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 range for any particular property of this | | |

PACKAGING

Container sizes: 2-gallon Pail (7.5 liter)

FEATURES AND BENEFITS

- Flexible.
- Low odor.
- Easy to apply.
- VOC compliant.
- Fast moisture-cure.
- UV resistant.
- Excellent resistance to weathering.
- Superior adhesion to a variety of substrates.
- Suitable for most surfaces and various roofing types.
- Provides a permanent waterproof seal at flashing and penetrations.

APPLICATION INSTRUCTIONS

Surface Preparation:

- All surfaces to receive compound must be clean dry and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit adhesion.
- Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminations.

SILICONE SEALANT

- Existing roof systems to be visually inspected for conditions that may adversely affect adhesion of newly installed products.
- Repair any visible deficiencies such as splitting, blistering and buckling.
- Visually inspect all flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.

Application:

- Stir product prior to application if needed.
- Apply by brush, trowel or putty knife.
- In all cases, an adhesion test is recommended to confirm suitability.
- Prior to using this product on new cap sheets (smooth or granulated); it is recommended to wait 30 days for weathering.
- Apply at 1/8" thick uniform application.
- Application in cold weather could result in uneven application and improper curing of product.
- Apply at all laps, cracks or breaks in the surface extending a minimum of 2 inches on each side.

Application instructions are basic guidelines only. Please read and understand the complete Mule-Hide specification for this product prior to use.

PRECAUTIONS

- Do not apply if inclement weather is expected within 24 hours of application.
- Do not thin product.
- Not for use where product will be under constant water submersion.
- Not recommended for silicone structural glazing.
- Do not apply in confined spaces without proper ventilation.
- Do not apply at temperatures above 120°F.
- For cold weather application, store material above 65°F.

For Professional Use Only - Keep out of the reach of children.

STORAGE AND CLEANING

- Shelf life is 12 months from date of manufacture when properly stored.
- All containers should be sealed when not in use.
- Keep from freezing.
- Store unopened containers between 50°F and 90°F
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Clean hands with waterless hand cleaner.
- Application tools and equipment can be cleaned with mineral spirits or Naphtha.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

PROTECTION & SAFETY

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Product Data Sheet

Silicone Sealant

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Material Safety Data Sheet

Tietex International, Ltd.
3010 North Blackstock Rd.
Spartanburg, SC 29301

Issue Date: 5/18/09
Revised: N/A

Section I: Product Identification

Product Name: Style T325

Generic Name/Description: Printed polyester stitchbonded fabric

CAS Number: N/A

Section II: Hazardous Ingredients

This product contains no hazardous ingredients as defined by OSHA 29 CFR part 1910.1200.

Component Information

| Component | % in Product |
|-----------|--------------|
| Polyester | 100% |

Section III: Physical Data

Per OSHA 29 CFR part 1910.1200 this product is defined as an "article." As a result, most physical data (such as vapor pressure and flash point) applicable to chemicals do not apply.

Polyester – a thermoplastic fiber that melts prior to combustion

Melt Point: 265 degrees C

Specific Gravity: 1.34-1.39

Section IV: Fire & Explosion Data

Combustion of this product may produce hydrogen, oxygen, carbon, nitrogen and/or oxides of carbon and nitrogen. Firefighters should take precautions against breathing combustion gases. Molten polyester can cause severe burns to the skin. Those involved in flame evaluation of the product should avoid breathing any combustion fumes or gases. Decomposition products generated from molten polymer may be subject to auto ignition.

Section V: Reactivity Data

Stability: Product is stable

Incompatibility: None



Material Safety Data Sheet

Hazardous Decomposition Products: Combustion of this product may produce hydrogen, oxygen, carbon, nitrogen and/or oxides of carbon and nitrogen.

Hazardous Polymerization: Hazardous polymerization will not occur.

Section VI: Health Hazard Data

Exposure to Tietex fabrics described in this MSDS should pose no health risks or health problems during normal conditions of handling in manufacturing or during normal conditions of use.

Section VII: Precautions for Handling and Use/Control Measures

Customary personal hygiene measures such as washing hands after working with fabrics are recommended. Adequate ventilation is recommended in the work area. Avoid breathing any dust that may evolve during processing. Some individuals have been known to have allergic reactions when prolonged contact is made with certain fabrics. Such individuals may wear gloves when handling fabric in order to avoid direct skin contact.

Section VIII: Emergency and First Aid

No health problems are anticipated from exposure to this product under normal conditions. However, should exposure result in skin, eye or other irritation, the individual should be removed from the area of exposure and provided the proper medical attention.

Section IX: Transportation Information

DOT Proper Shipping Name: Not regulated.

DOT Identification Number: N/A

DOT Hazard Class: N/A

DOT Packaging Group: N/A

Section X: Regulatory Information

SARA Title III Section 311/312 Hazard Category: Not hazardous

SARA Section 313 Toxic Chemicals: None known.

Section 302 Extremely Hazardous Substances: None known.

CERCLA Reportable Quantity: None.

California Proposition 65: Carcinogens – per state of California regulations- None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.



Material Safety Data Sheet

Chemicals that may cause birth defects – per state of California regulations-
None known to be present or none in reportable amounts for occupational
exposure as per OSHA's approval of the California Hazard Communication
Standard, Federal Register, page 31159 ff, 6 June 1997.

RCRA Status: If discarded in its purchased form, this product would not be a
hazardous waste either by listing or by characteristic. However, under RCRA, it
is the responsibility of the product user to determine at the time of disposal,
whether a material containing the product or derived from the product should be
classified as a hazardous waste. (40 CFR 261.20-24)

Disclaimer

The information contained herein is, to the best of knowledge and belief,
accurate. Since the conditions of handling and use are beyond our control,
Tietex International, Ltd. assumes no liability regarding the use of the product
represented in this MSDS and makes no guarantees of results. It is the
responsibility of the user to comply with all applicable federal, state, and local
laws and regulations.

Prepared by: Tricia Guzman
Plant Chemist/Environmental Manager
(864) 574-9434



High Performance Roof Coatings

100% Silicone Roof Coating

Feature & Benefits

- Easy application
- High solids
- No Solvents
- Low VOC
- Resists ponding water
- Superior TPO primer
- Two asphaltic surface primer options
- Packaging: 5-gallon pail and 50-gallon drum
- Material & system warranties available*

*Depending on project type and application rate



Application Methods:



Approved Substrates:

Existing smooth surface BUR, well adhered acrylic coatings, concrete, metal, spray applied polyurethane foam and various single-ply roofing membranes.

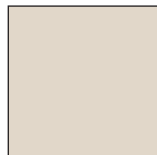
Standard Colors



White



Gray



Tan



Santa Fe Tan



Black

Colors shown are matched as accurately as possible, but may vary slightly from finished product.

| PRODUCT CODE | COLOR | DESCRIPTION | COVERAGE | SHELF LIFE |
|--------------|--------------|----------------|---------------------------------|------------|
| 16MHSIRC5 | White | 5-Gallon Pail | Minimum 1.5 Gallon per Sq | 2 Years |
| 16MHSIRC55 | | 50-Gallon Drum | | |
| 16MHSIRC5G | Gray | 5-Gallon Pail | | |
| 16MHSIR55G | | 50-Gallon Drum | | |
| 16MHSIRC5T | Tan | 5-Gallon Pail | | |
| 16MHSIR55T | | 50-Gallon Drum | | |
| 16MHSIRC5S | Santa Fe Tan | 5-Gallon Pail | | |
| 16MHSIR55S | | 50-Gallon Drum | | |
| 16MHSIRC5B | Black | 5-Gallon Pail | | |
| 16MHSIRC55B | | 50-Gallon Drum | | |

mulehide.com
800-786-1492

The information herein should not be considered all-inclusive and should always be accompanied by a review of the Mule-Hide specifications and guidelines and good application practices.

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Visit the Mule-Hide website at www.mulehide.com prior to any installation for updated technical specifications and details. Mule-Hide is a U.S. registered trademark. All rights reserved.



Repair Hero

The Ultimate Roof Flashing

Ideal maintenance and repair product for all roofs in all weather

- Extremely strong and elastic with high elongation and tensile strength to ensure performance under conditions that may cause asphalt-based cements to fail.
- Can be applied to wet/dry surfaces and installed underwater.
- VOC compliant in all states including California.

Repair Hero

Repair Hero is a solvent-based, fiber-reinforced terpolymer sealant intended for the repair of asphalt, modified bitumen, metal, Kynar®, concrete, TPO, PVC, Elvaloy®/PVC, Hypalon® (CSPE), PIB and EPDM roofs.

Packaging

Repair Hero is available in White, Black or Gray. Packaged in 1-gallon or 3-gallon pails.

Application

Begin with a clean surface for proper adhesion. Repair Hero is best applied with a trowel approximately 1/8" thick. Taper the edges of the repair. Polyester fabric may be embedded for added strength. Application over EPDM roofs may cause the membrane to swell. **Repair Hero cannot be used to fill ShapeShift Pitch Pans.**

Features and Benefits

- Ideal maintenance and repair product
- Universal adhesion to all roof substrates
- True all-weather repair product
- Wet, dry and underwater repairs
- Excellent adhesion and elongation
- Strong tensile strength
- Non-yellowing – UV stable
- Superior weathering
- No stirring required
- **Will not freeze**
- **Cures in 24-48 hours**
- **Shelf life of 2 years or more**



Preparation for installing product:

Repair Hero

To use: open pail, use, close lid and repeat.



Competitor

To use: remove skin, stir for 5 minutes with specialty mixer, apply and repeat.



Repair Hero Comparison

Repair Hero vs Competitor Silicone-based

| | Repair Hero | Competitor Silicone-based |
|--------------------------------------|--------------------------|-------------------------------------|
| Chemistry | Terpolymer (SEBS) | Solvent-based Silicone |
| Solids by weight | 63% | 80% ± 1% |
| Solids by volume | 59% | 68% ± 1% |
| Elongation | 300% | 200% |
| Tensile strength | 1700 psi | 184 psi |
| Fiber reinforced | Yes | Yes |
| Wet surface application | Yes – Wet and underwater | Yes – Damp surface only |
| Packaging | 1- and 3-gallon pails | 2 gallons packaged in 3-gallon pail |
| Stirring required before application | No | Yes |

Adhesion Comparison



Repair Hero adhesion to aged TPO



Silicone-based Roof Patch adhesion to aged TPO



Repair Hero adhesion to aged reinforced EPDM



Silicone-based Roof Patch adhesion to aged reinforced EPDM



Repair Hero FAQs

1. Does Repair Hero need to be stirred or mixed before use?

Repair Hero does not require stirring or mixing before use. Repair Hero does not skin over or separate in the can after opening.

2. Can Repair Hero be used on single-ply membranes?

Repair Hero is approved for use over TPO, PVC, KEE, Hypalon® and EPDM single-ply membranes. On EPDM membranes Repair Hero may cause some swelling.

3. Can Repair Hero be applied to wet surfaces?

Repair Hero can be used on wet surfaces and under water. When applying over wet surfaces, additional pressure is required to displace water. Surfaces can be wet but they must be clean.

4. What is the shelf life of Repair Hero?

Repair Hero has a two-year shelf life. However, if sealed and stored properly, Repair Hero can remain useable beyond two years.

5. What colors and sizes are available?

Repair Hero is currently available in White, Black and Gray. Repair Hero is packaged in one- and three-gallon pails. The three-gallon pail is completely filled unlike some of the competition.

6. What kind of prep work is required before applying?

The surface must be clean and sound. No primer is required. Apply with a trowel.

7. Does Repair Hero have temperature restrictions?

Repair Hero may be applied in all weather conditions. In colder weather, Repair Hero should be kept warm before use.

8. Can Repair Hero be applied to Kynar®-coated metal?

Repair Hero has excellent adhesion to Kynar-coated materials.

9. Can Repair Hero be reinforced with fabric?

Repair Hero is a fibrated product, but fabric can be embedded in the surface to provide additional reinforcement.

10. Can Repair Hero be used on shingles?

Repair Hero can adhere to asphalt shingles.

11. Is Repair Hero available in a tube?

No, Repair Hero is only available in one- and three-gallon pails.



Warranty Information

"The name trusted in roofing since 1906"



Warranty Offerings Silicone Roof Systems

| Warranty Type | Period | Warranty Fees Cost/SF Min \$ |
|----------------------------------|---------|------------------------------------|
| Material Only ¹ | 50-Year | Free |
| PRE Material Only ^{1,3} | 20-Year | \$250.00 Flat Fee |
| PRE Material Only ^{1,4} | 20-Year | \$500.00 Flat Fee |
| System ^{1,2,3} | 10-Year | \$0.05 \$400 |
| System ^{1,2,3} | 15-Year | \$0.08 \$525 |
| System ^{1,2,3} | 20-Year | \$0.11 \$800 |

Important Warranty Notes:

Current Warranty fee schedules are as listed. Note: Any applicable taxes will be added to your warranty fee. Please contact Mule-Hide for pre-approval when applying for any non-published Warranty timeframes. Substrate specific specifications are available at www.mulehide.com.

1. Proof of purchase required
2. These warranties are only available to Mule-Hide Warranty Eligible Applicators.
3. Commercial projects only (not available for Residential projects)
4. Residential projects only

Mule-Hide Limited Material and System Warranties are only valid when components are installed according to manufacturers' specifications. Always refer to Mule-Hide Application Guidelines for additional requirements.

Silicone Material Limited Warranty

To qualify, installation of Mule-Hide Coatings must meet the guidelines as published in Mule-Hide specifications. However, no fee or inspection is required, and the Applicator is not required to be a Mule-Hide Warranty Eligible Applicator. A warranty application must be completed and submitted to Mule-Hide along with copies of the material invoices.

Silicone System Warranties

To qualify, application of Mule-Hide Coatings must meet the guidelines as published in Mule-Hide specifications. A Warranty fee and an inspection will be required. The Applicator is required to be a Mule-Hide Warranty Eligible Applicator to qualify for this type of Warranty. Distributor invoices for the product are required for consideration of Warranty.



We will still honor our price if you turn the product down.



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