

# 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:**



# **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 when:

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



# **ROOF COATING RESTORATIONS OVER:**





# **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.

#### 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.

# **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.

<b>Product Code</b>	Color	Description	Coverage	Shelf Life
16MHA3005		5-Gallon Pail		
16MHA30050	White	50-Gallon Drum		
16MHA300TO		275-Gallon Tote		
16MH3005GY		5-Gallon Pail		
16MH3050GY	Gray	50-Gallon Drum		
16MH300TOG		275-Gallon Tote		
16MHA3005T		5-Gallon Pail	See Specification	18 Months
16MH300T50	Tan	50-Gallon Drum		
16MH300T0T		275-Gallon Tote		
16MH3005BK		5-Gallon Pail		
16MH3050BK	Black	50-Gallon Drum		
16MH300T0B		275-Gallon Tote		
16MHA3005S		5-Gallon Pail		
16MHA3050S	Santa Fe Tan	50 -Gallon Drum		
16MHA30TOS		275-Gallon Tote		

<b>Product Code</b>	Color	Description	Coverage	Shelf Life
16MHA3105		5-Gallon Pail		
16MHA31050	White	50 -Gallon Drum		
16MHA310T0		275-Gallon Tote		
16MHA3105G		5-Gallon Pail		18 Months
16MHA3150G	Gray	50-Gallon Drum	See Specification	
16MHA31TOG		275-Gallon Tote		
16MHA3105T		5-Gallon Pail		
16MHA3150T	Tan	50-Gallon Drum		
16MHA31T0T		275-Gallon Tote		
16MHA3105B		5-Gallon Pail		
16MHA3150B	Black	50-Gallon Drum		
16MHA31T0B		275-Gallon Tote		
16MHA3105S		5-Gallon Pail		
16MHA3150S	Santa Fe Tan	50-Gallon Drum		
16MHA31TOS		275-Gallon Tote		







\*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.

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHA3205	5-Gallon Pail		18 Months
16MHA32050	50-Gallon Drum	See Specification	
16MHA320T0	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.

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHA3BC5	5 Gallon Pail		18 Months
16MHA3BC50	50 Gallon Drum	1.5 Gallons per Sq	
16MHA3BCTO	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.

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHA2002	2-Gallon Pail - White		
16MHA2005	5-Gallon Pail - White		
16MH2002FW	2-Gallon Pail - Fibrated - White	75-100 Lin. Ft Seams/ 300-400	
16MH2005FW	5-Gallon Pail - Fibrated - White		18 Months
16MH2002FT	2-Gallon Pail - Fibrated - Tan	Fastener Heads	
16MH2005FT	5-Gallon Pail - Fibrated - Tan		



#### 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.

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHA3BT5	5 Gallon Pail		2 Years
16MHA3BT50	50 Gallon Drum	1.5 Gallons per Sq	
16MHA3BTT0	275 Gallon Tote		



#### **A-125 METAL ROOF PRIMER**

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

<b>Product Code</b>	Description	Coverage	<b>Shelf Life</b>	
16MHA1255	5-Gallon Pail	1/2 Gallon per Sq	18 Months	
16MHA12550	50-Gallon Drum			
16MHA125T0	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.

<b>Product Code</b>	Description	Carton	Shelf Life
08MHMPLS2W	2-Liter Pouch - White	4 O Liter Daugh	1 Year
08MHMPLS2B	2-Liter Pouch - Black	4 - 2-Liter Pouch	i feai



#### 115 CLEANER

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

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHA1155R	5-Gallon Pail	1/4-1/2 Gallon per Sq	1 Year
16MHA11555R	55-Gallon Pail	1/4-1/2 dallon per sy	i itai

# **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 blower 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.

<b>Product Code</b>	Color	Description	Coverage	Shelf Life
16MHSIRC5	White	5-Gallon Pail		
16MHSIRC55	Wille	55-Gallon Drum		
16MHSIRC5G	Gray	5-Gallon Pail		
16MHSIR55G	Gray	55-Gallon Drum	Minimum 1.5 Gallon	2 Years
16MHSIRC5T	Tan	5-Gallon Pail		
16MHSIR55T	Idii	55-Gallon Drum		
16MHSIRC5B	Black	5-Gallon Pail		
16MHSIRC55B	DIACK	55-Gallon Drum		
16MHSIR5S	Santa	5 -Gallon Pail		
16MHSIR55S	Fe Tan	55-Gallon Drum		



#### 100% 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 D	escription	Coverage	Shelf Life
16MHSIRL	5W 5	-Gallon Pail - White	Minimum 1.5 Gallon	2 Years
16MHSIRL	5G 5	-Gallon Pail - Gray	per Sq	Z feais



#### 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.

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





\*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.

Product Code	Description	Carton	Weight	Shelf Life
16MHLFWH10	10-oz Tube - White	30/ctn	37 lbs.	
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.	2 years
16MHLFBK1	1-Gallon Pail - Black	1 pail	9 lbs.	2 years
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.	



#### 115 CLEANER

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

<b>Product Code</b>	Description	Coverage	Shelf Life	
16MHA1155R	5-Gallon Pail	1/4-1/2 Gallon per Sa	1 Year	
16MHA11555R	55-Gallon Pail	1/4-1/2 Gallott per 5q	i ieai	



#### **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.

	<b>Product Code</b>	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



#### **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 coaltar-pitch roofs, TPO membranes or any areas of ponding water.

<b>Product Code</b>	Description	Coverage	Shelf Life
16MHMBSB5	5-Gallon Pail	1 College per Co	18 Months
16MHMBSB50	50-Gallon Drum	1-Gallon per Sq	



#### 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.

<b>Product Code</b>	Description	escription Coverage		
16MHSITPRP	1-Pint w/ brush applicator (clear)	1 pint per square	Shelf Life	
16MHSITPR1	1-Gallon Pail (blue)	1 Callan nay 0 10 Ca	2 Years	
16MHSITPR5	5-Gallon Pail (blue)	1 Gallon per 8-10 Sq		



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



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