100% Silicone Roof Coating

Single-Part Roof Coating



PRODUCT DATA SHEET

DESCRIPTION

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

BASIC USES

MuleHide 100% Silicone Roof Coating can be applied 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.

PACKAGING

Container sizes: 1-, 5- and 55-gallon

APPLICATION

Preparation

1. Surface must be dry and free of dirt or corrosion particles.
2. Clean with MuleHide 115 Cleaner. EPDM roofs require aggressive power washing and may need to be cleaned twice to remove surface contamination.
3. Thoroughly rinse the roof after cleaning to remove all detergent.
4. Apply primer as required.
5. All seams, fasteners and penetrations should be sealed with MuleHide Silicone Sealant.

Mixing

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

Application

1. Recommended application temperature is 40°F and rising.
2. For best results, apply coating in multidirectional fashion.
3. Use 100% Silicone Roof Coating as it comes from the container, no thinning is necessary with this product.
4. Product cures through moisture absorption from the air.
5. Cure time will be much quicker in humid conditions.
6. Open and partially full containers will skin over quickly, if this occurs, remove the skin and continue using.

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

TYPICAL PHYSICAL PROPERTIES

As Supplied:		As Cured:	
Appearance	Black, Gray, Santa Fe Tan, Tan, White	Durometer Hardness, Shore A, points ASTM D2240	47
Solids Content, Percent by weight ASTM D2369	92 (+/-3)%	Tensile Strength, psi ASTM D412	325
Solids Content, Percent by volume ASTM D2697	90 (+/-2)%	Elongation, % ASTM D412	300
Specific Gravity, at 25°C (77°F)	1.24	Permeability[1], perms ASTM E96	10.7
Tack-Free Time	1-2 hrs.	Tensile, Set at 100% elongation	Nil
Cure Time	1-4 hrs.	Temperature Stability Range, °C (°F)	-37 to 100 (-35 to 212)
Flash Point	141°F	Accelerated Weathering, QUV, 5,000 hours ASTM G154	No degradation
VOC	<50 g/l	Flame Spread ASTM E108	Class A
[1]20-mils at 38°C (100°F) and 90 percent relative humidity [2]Applies to white silicone only		Initial Solar Reflectivity[2], ASTM C1549	89
		Initial Thermal Emissivity[2], ASTM C1371	90
		SRI Value[2]	113

*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.

PRECAUTIONS

Avoid prolonged contact with skin or fumes. If irritation occurs seek medical attention. Keep out of reach of children. For professional use only. Read SDS prior to use.

CLEAN UP

Clean up with a cleaning solvent.

STORAGE & HANDLING

- Two-year shelf life with proper storage.
- Job site storage in excess of 90°F (32°C) may affect product shelf life. Store product at temperatures between 60°F and 80°F. Materials exposed to lower temperatures affect the workability and performance of the product. Products must be restored to 60°F prior to use.

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CODES & APPROVALS

CALIFORNIA Title 24 COMPLIANT

CLASSIFIED UL

CEMENTS AND COATINGS FOR ROOFING SYSTEMS AS TO EXTERNAL FIRE EXPOSURE <4PR7>

NSF P151 CERTIFIED

MIAMI-DADE COUNTY APPROVED

FM APPROVED

RADIATIVE PROPERTIES FOR CRRC AND LEED		
CRRC Description	**Test Method**	**White**
Initial solar reflectance	ASTM C1549	0.89
Solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.73
Initial thermal emittance	ASTM C1371	0.89
Thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.88
SRI (Solar Reflectance Index)	ASTM E1980	112
SRI (Solar Reflectance Index) after 3 years	ASTM E1980	89
Product ID Number		0670-0022

Solar Reflectance Index (SRI) is calculated per ASTM E 1980. The SRI is a measure of the roof's ability to reject solar heat, as shown by a small temperature rise. It is defined so that a standard black (reflectance 0.05, emittance 0.90) is 0 and a standard white (reflectance 0.80, emittance 0.90) is 100. Materials with the highest SRI values are the coolest choices for roofing. Due to the way SRI is defined, particularly hot materials can even take slightly negative values, and particularly cool materials can even exceed 100.

PROTECTION & SAFETY

MuleHide 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. MuleHide's safety data sheets should be read and understood by all of your supervisory personnel and employees before using MuleHide products in your facilities.

ADDITIONAL INFORMATION

The information given on this PDS is subject to change without notice. Always check the MuleHide website at www.mulehide.com for the latest information, changes and updates or contact MuleHide at 800-786-1492.

CRRC RATED PRODUCT

DISCLAIMER

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