

Shur-Gard™ SG-50 Acrylic Coating

DESCRIPTION

Shur-Gard™ SG-50 Acrylic Coating is an acrylic based elastomeric coating manufactured with a high quality styrene-acrylic resin and ceramics for high durability and excellent adhesion. When cured, the SG-50 forms a monolithic cover with rubber-like properties allowing the material to expand and contract. Because of its elastomeric nature, the surface expands and returns to its original shape with no deformation.

Shur-Gard SG-50 Acrylic Coating:

- Reflects up to 86% of the sun's heat and UV.
- Lowers roof surface temperatures.
- Non-toxic and environmentally friendly.
- May help reduce air conditioning costs.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULTS
Solids by weight, %	ASTM D2369	57.0 ± 2.0
Solids by volume, %	ASTM D 2369	44 ± 2.0
Viscosity, cps	ASTM D 2196	40,000 ± 10,000
pH	ASTM E 7097	9.0 ± 0.5
Density, lb/gal	ASTM D 1475	11.05 ± 0.02
Elongation, %	ASTM D 2370	350 min.
Tensile Strength, lb/in ²	ASTM D 2370	180 min.
Accelerated Weathering	ASTM D G23	No deleterious effects after 2000 hours
Dry time for water resistance	ASTM D 1640	1 Hour*
Total Dry Time	ASTM D 1640	12 to 24 hours*
Fungus resistance	Internal test	PASS
Reflectance, % (CRRC)	ASTM C 1549	.86
Thermal Emittance, % (CRRC)	ASTM C 1371	.89

* Drying time is dependent on amount of humidity in the atmosphere. Higher % of humidity will increase drying times.

USES

Shur-Gard SG-50 Acrylic Coating is designed for application to various properly prepared substrates. SH-50 may be used on:

- Aged, smooth built-up roofs and aluminum coated roofs
- Concrete decks (must be fully cured)
- Metal roofs (a primer may be required for areas exhibiting rust)
- Smooth or granulated modified bitumen
- Existing coated foam roofs (not to be used over silicone coatings)
- New uncoated spray urethane foam
- Well adhered, weathered, roofs previously coated with an acrylic coating

All roof surfaces must have positive slope. It is not recommended for use on areas subject to poor drainage. Not for use over graveled BUR surfaces.

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COLORS

The standard color is white. Other colors may be available.

PACKAGING

Packaging is standard in 5 gallon pails. Weight per pail is 55lbs.

STORAGE & HANDLING

All materials shall have proper identification & labels. All containers must have airtight unbroken seals or unopened containers. All materials must be stored in a secure area to prevent theft, damage, or vandalism. Any containers without proper manufacturer's identification will not be acceptable. All materials at jobsite must have proper MSDS Sheets available at the project site. All materials are to be stored at not less than 45°F.

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

PROTECTION & SAFETY

All areas not scheduled to be coated and items such as; skylights, HVAC units etc., that will not be coated must be protected by masking or covering to prevent over spray or accidental coating. The contractor will be responsible for any material spills, spray drift, or over spray.

Mule-Hide recommends that applicators wear sun glasses when applying the coating in bright sun shine.

***CAUTION!! COATED AREAS BECOME EXTREMELY SLIPPERY WHEN WET.
ALWAYS MAKE SURE ALL WORK ENVIRONMENTS COMPLY WITH OSHA STANDARDS.***

APPLICATION EQUIPMENT

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

1. Brush: Suitable for small areas and flashings. Use a synthetic 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: The following spray equipment is recommended by Mule-Hide.

PUMP

The pump should be capable of producing a minimum material output of 2 gallons per minute at 3,000 p.s.i.

GUN

The airless spray gun should be equipped with a ball bearing swivel for ease of handling. Recommended orifice size is .025 to .035 inch diameter with a wide-angle fan pattern. A Reverse-A-Clean nozzle is recommended. Exact orifice size will vary with temperature of the material and weather conditions.

HOSES

Minimum recommended amount is three 50-foot lengths of high-pressure material hose with a 1/2" ID and one length of high-pressure whip-hose with a 3/8" ID.

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APPLICATION

Initial Preparation

Prior to the application of any Shur-Gard Acrylic Coating, always read all pertinent use, storage, application and safety data.

SG-50 is intended for use on roofs and substrates in good condition. Roofs must be fully repaired prior to applying this coating. Areas where poor drainage occurs must be corrected prior to applying the coating. Deficiencies in concrete such as cracks and spalling shall be filled/repared with A-200 Flashing Grade Sealant or a suitable concrete repair material prior to application of the SG-50. New concrete must be fully cured.

ALWAYS TEST FOR PROPER ADHESION

Mule-Hide recommends a jobsite adhesion test be performed prior to starting a project. Any existing coating must be checked for good adhesion and compatibility. If in doubt as to the compatibility of the coating and substrate, allow a minimum six-day cure.

Check weather conditions prior to start of work. 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

The roof surface shall be clean, dry and free of all debris. All surfaces shall be thoroughly cleaned to remove dirt, loose granules, oils, grease, loose coatings, chalk, rust, corrosion, efflorescence, mildew and other contaminants that may affect the adhesion, quality or performance of the product. Rust/corrosion may require wire brushing, scraping or sandblasting. Pressure washing is recommended. If pressure washing is not possible, clean with a broom and TSP/warm water solution (or equivalent cleaner), rinse thoroughly and allow to completely dry.

Always be sure the surface you are applying the coating to is clean and dry. Do not apply this product to a wet or damp surface. If there is a rainfall, heavy dew or fog, you must wait until the surface is completely dry before applying the coating.

All repairs to the roof surface must be completed with similar materials prior to the application of the Shur-Gard SG-50 Acrylic Coating. Repaired areas should receive a prime coat prior to application of the first/base coat. If asphalt emulsions are used, allow a minimum of seven days curing time and then clean (power-wash) the roof prior to application of the acrylic coating. Rusted areas on metal panels must be primed with Mule-Hide's A-125 Primer. When using asphalt-based products to complete repairs, allow a minimum of one week for the asphalt-based products to cure prior to applying the acrylic coating. Always spot coat repaired areas with the SG-50 and allow to fully dry before applying the first coat of SG-50.

Application of the Coating

Mule-Hide recommends SG-50 be applied at a minimum finished application rate of 2 gals per 100 square feet (100 sf per gallon per coat/minimum of 2 coats). For extended performance SH-50 may be applied in two coats at a rate of 1.5 gal per 100 square feet, per coat for a final coverage rate of 3 gals per 100 square feet. Do not apply the Shur-Gard at a coverage rate higher than 1.5 gal per 100 square feet per coat as coverage rates higher than 1.5 gal per 100 square feet can result in surface splitting or blistering due to trapped moisture. Stir the pail thoroughly. **Do not dilute.**

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Application - Continued

The SG-50 shall be applied in a smooth uniform coat in one direction with each additional coat applied perpendicular to the previous coat. SG-50 requires complete evaporation of water to cure. When applying multiple coats, Shur-Gard should always be applied at a rate of 1 gal to 1.5 gals per 100 square feet. 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. Do not recoat if product is still wet. Multiple coats should always be applied within 72 hours of each coat to minimize or prevent contamination that would require additional cleaning.

PRECAUTIONS

Do not apply this product to a wet or damp surface. All surfaces must be completely dry. Trapped moisture may cause roof coatings to blister. Do not apply in coats thicker than recommended, to a hot surface (temperatures above 120°F) or over a prior coat that has not fully dried as blistering or cracking may occur. Temperature and humidity will affect the drying time of the acrylic coating. Cool temperatures and high humidity retard curing time. Do not apply if weather conditions will not permit complete cure before, rain, dew or freezing temperatures. A basic guideline is that there should be an ambient temperature of no less than 50° F. For applications in higher temperatures (above 90° F) Mule-Hide recommends application in multiple thin coats to prevent trapped moisture problems. Applying to deck surfaces that have temperatures above 120° F may cause blistering of the coating. High humidity will slow the drying time of the acrylic coating.

Commencement of work by the contractor implies his approval of the roof surface. The contractor is solely responsible for proper application.

KEEP CONTAINERS CLOSED WHEN NOT IN USE!

DO NOT THIN THIS PRODUCT! DO NOT MIX THIS PRODUCT WITH OTHER PRODUCTS!

CLEAN UP

Equipment clean up is simple using soap and water while the product is still wet. Thoroughly rinse all hoses and spray equipment at the end of each day and make sure all materials, debris, and containers are removed from the job site and properly store or discard.

WARRANTY

A material warranty may be available, when installed in compliance with Mule-Hide's published application instructions over an acceptable, existing, positive sloped, roofing system. The material is warranted to be free from manufacturing defects for a five-year period when applied at a finished rate of 2 gallons per 100 square feet and seven (7) years when applied at 3 gallons per 100 sf. Substrate preparation and material application must be in accordance with Mule-Hide application recommendations and procedures.

CUSTOMER SERVICE

Contact Mule-Hide Products Company at 800/786-1492 for additional information.

PRIOR TO USE OF THIS MATERIAL, READ ALL APPROPRIATE MATERIAL SAFETY DATA SHEETS AND WARNINGS. ALWAYS CHECK THE MULE-HIDE WEBSITE, www.mulehide.com, FOR THE MOST CURRENT AND UP-TO- DATE PRODUCT INFORMATION.

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800-786-1492

PRODUCT DATA SHEET
PDS 09-9805
Revision Date: 02/23/10

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DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not make nor does it authorize anyone to make any warranty of merchantability or fitness for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Mule-Hide's physical properties. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury of person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the complaint or failure before repairs are made.