GREENSIL 100

TECHNICAL DATA SHEET

TYPICAL PHYSICAL PROPERTIES[1]

Test Method	Property	Result
ASTM D2370	Tensile Strength	307 psi @ 73°F (23°C) 484 psi @ 0°F (-18°C)
ASTM D2370	Elongation	205% @ 73°F (23°C) 307% @ 0°F (-18°C
ASTM D624	Tear Resistance	26 lbf/in @ 73 F (23 C)
ASTM E96 Procedure B	Permeance	10.7 perms
ASTM C1549	Reflectivity	.87 initial/ .70 3-year aged (white)
ASTM C1371	Emissivity	.89 initial/ .90 3-year aged (white)
ASTM E1980	Solar Reflectance Index	SRI - White: 113
ASTM D471	Water Absorption	0.1% @ 73°F (23°C)
ASTM D522 Procedure B	Low Temp. Flexibility	Pass @ -15°F (-26°C)
ASTM G53	Weathering	No degradation after 8,760 hours
ASTM D2240	Hardness	50 Shore A
	Max. Service Temp.	185°F (85°C)
ASTM D2697	Solids by Volume	95% +/- 2
ASTM D1644	Solids by Weight	95% +/- 2
ASTM D93	Flash Point	>105°F (41°C)
	Cure Time	Min. 2 hours @ 100°F (38°C) & 90% RH Max. 8-12 hours @ 40°F (4°C) & 20% RH
EPA Method 24	VOC	<40 grams/L
	Color	White, Light Gray, Dark Gray, Tan

Special colors are available at an additional charge with minimum order

[1] - 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 specific cation range for any particular property of this product.

RATINGS AND APPROVALS

Underwriters Laboratories	File R38137
Factory Mutual Global	Approved
NSF Protocol	P151 (white only)
Miami-Dade County Product Control Approved NOA	NO. 23-0502.02
CRRC listed (white)	
Title 24	Compliant
ASTM C1305 Crack Bridging Ability	Passed
Meets Requirements of ASTM D6694 Standard Specification for Liquid-Applied Silicone Coating	

SHIPPING INFORMATION

Container Size	Gross Weight	Class
5-gallon pail (18.9 L)	60.5 lbs. (27.4 Kg)	55
55-gallon drum (189.3 L)	662 lbs. (300.3 Kg)	55

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OVERVIEW

GreenSil 100 is a single-component, moisture-cured, fluid-applied silicone coating that is specially formulated to meet low-VOC requirements. Once cured, the silicone coating membrane offers excellent resistance to water intrusion, UV exposure, and natural weathering. This product is designed to provide protection for a wide range of building surfaces. It is excellent for waterproofing and restoring existing roof systems, as well as for weather protection of SPF roofing systems.

FEATURES AND BENEFITS

- Superior leak protection
- Easy to apply and wide application window
- Weatherability
- Long-lasting
- Resistance to ponding water

COVERAGE RATES, see above chart

GreenSil 100 silcone Coating is 95 % solids by volume. A typical application rate of 1.0-1.5 gallons per 100 square feet should yield a dry film thickness of approximately 15 mils in one coat. Waste, wind loss, and other variables will affect the actual dry film thickness.

INSTALLATION

1. All surfaces to be coated must be clean, dry, sound, and paintable. It may be necessary to power wash and/or prime to enhance adhesion.
2. No thinning or reducing is recommended. Mix well before using. For drums: use a ¾ hp air-powered mixer with a 6" blade and shaft that will create a good vortex. For pails: use at least a 3" blade or a suitable hand mix paddle. Mixed materials should be used immediately to avoid curing in the container with small amounts of atmospheric moisture.
3. It is not recommended that this product be applied at temperatures below 40°F (4°C) or if inclement weather is expected within 1 hour of application.
4. This product is suitable for application through airless spray equipment or with a roller, squeegee, or brush. Utilize a pump with a minimum output of 3 gallons per minute and 3,500 psi fluid pressure capability, fed with a 5:1 transfer pump and with ½" and ¾" ID hose. Always use components rated for the pump maximum pressure Use a 30-mesh screen or larger. Use a spray tip with a minimum orifice of .30" and 50 degree fan angle. Medium to heavy nap roller pads are recommended. Use hoses dedicated for silicone coatings.
5. This coating can be installed in one or multiple coats.
6. SPF should be coated within 24 hours of application. Subsequent coats should be applied within 24 hours of prior applications to ensure full and uniform adhesion. Coating must be evenly applied and pinhole free. The coating will cure in 2 to 8 hours, dependent on weather conditions such as temperature and humidity. Do not install additional coats until coating is fully cured.
7. Approved roofing granules may be installed in the topcoat to improve aesthetics, traffic resistance, and impact resistance.
8. See listing at www.nsf.org for application and cure instructions for rainwater catchment use.
9. Cleanup of spray equipment containing uncured material may be accomplished by flushing with VM Rule 66 mineral spirits. GreenSil 100 cures by reacting with moisture and should not be left in spray equipment, or hoses for prolonged periods unless equipment contains moisture lock hoses, fittings Equipment without these components will transmit sufficient moisture vapor to gradually form cure walls and at unsealed connections.

PRECAUTIONS

- Not recommended for continuous immersion service, for use in cold storage applications without a vapor retarder, or directly over asphaltic surfaces without a sealer.
- Silicone coatings are slippery when wet. Exercise caution when walking on a roof under these conditions.
- Avoid breathing silicone vapors or spray mists. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior use.Additional care must be taken to prevent rooftop HVAC equipment from introducing silicone vapors into interior areas during application.Building occupants should be warned of spray operations in process.
- Keep cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks.
- It is not recommended to store this material at temperatures exceeding 100°F (38°C). Shelf life of unopened containers is 24 months. For maximum shelf life, store between 40°F and 70°F (4°C and 21°C). High temperatures will reduce shelf life.
- Remove any skin prior to mixing the material. Once container is opened, all product should be used. Container cannot be resealed without product skinning or curing inside container. Always keep covered and protected from the elements. When transporting this product, ensure that the lid is tight and the container is secured.

Review Ultratite Solutions Product's specifications and details for complete installation information. Please contact Ultratite Solutions Products for more information.