

GAF Unisil Silicone Roof Coating



Description:

GAF Unisil Silicone Roof Coating is a moisture-cure silicone coating that protects against the damaging effects of weather elements and UV rays. It also provides protection against leaks due to ponding water for a variety of substrates.

Approved Substrates:

Metal, TPO, PVC, Hypalon®, EPDM, smooth and granulated asphaltic, structural concrete, and SPF.

Packaging Sizes:

- 5 gallon (18.9 liter) pail
- 55 gallon (200 liter) drum

Storage and Shelf Life:

Product Storage Temperature: 40°F – 90°F (5°C – 32°C) do not allow coating to freeze.

Shelf Life: 12 months from date of manufacture in unopened containers, if stored properly in a clean and well-ventilated area.

Warranty:

Refer to applicable warranties and guarantees, available at gaf.com, for complete coverage and restrictions.

Application Instructions:

Substrate Preparation: Roof must have positive drainage, and be clean and dry with no trapped moisture. Repair damaged membrane, flashings, and penetrations. Conduct test patches to verify adhesion of coating prior to start of work. Priming of substrate is recommended and may be required. See Liquid-Applied Roofing Manual at gaf.com.

Mixing: Mix uniformly for 3 minutes prior to use. Do NOT attempt to thin or self-tint.

Application: Apply by brush, roller, or airless sprayer evenly at the rates specified below. A minimum of 2 coats should be applied. Do NOT apply more than 1.5 per 100 ft² (6.11 L per 10 m²) at a time. Apply additional coats perpendicular to the previous coat once it is dry enough to walk on. All surfaces must be uniformly coated and free from voids, pinholes, or blisters

Limitations and Precautions:

Application Air Temperature: Min. 40°F (5°C). Cool temperatures may slow curing. Do NOT heat containers. Do NOT apply if rain, dew, fog, heavy moisture, condensation, or freezing temperatures are in the 2-hour forecast to ensure proper cure. Call GAF Technical Support Services for temperature ranges outside these limits.

Safety and Handling:

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).

Clean Up:

Use VM&P naphtha or virgin mineral spirits to thoroughly flush equipment. Leave solvent in the lines and equipment until next use. Do not leave product in the pump or hoses.



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For additional information, contact GAF Design Services at 1-877-423-7663 or designservices@gaf.com

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Physical Properties — (ASTM D6694/D66994M-21)

Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values*
Volume Solids	ASTM D2697	57% min.	71%
Weight Solids	ASTM D1644	As listed by manufacturer	81%

Film Physical Property Requirements for Cured Silicone Coating for Use on SPF

Type	ASTM Test Method	ASTM Minimum Values	Test Values*
Initial Percent Elongation	ASTM D2370	Min. 100%	550%
Initial Tensile Strength	ASTM D2370	Min. 150 psi	300 psi
Tear Resistance	ASTM D624	Min. 20 lbf/in	31 lbf/in

Additional Physical Properties

Type	ASTM Test Method	Test Values*
VOC	ASTM D3960	< 250 g/L
Standard Colors	—	White, Light Gray, Dark Gray

Approvals



CRRC (Cool Roof Rating Council)
coolroofs.org

Product ID	Type	Solar Reflectance	Thermal Emittance	Solar Reflective Index (SRI)
Smooth White — 0676-0156	Initial	0.83	0.89	104
	Aged	0.72	0.90	88
Rough White — 0676-0156	Initial	0.83	0.91	104
	Aged	0.68	0.90	83



UL Listed
ANSI/UL 790 Class A. Refer to UL Product iQ for actual assemblies.



Title 24
Can be used to comply with the 2019, Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations.



Miami-Dade County Product Control Approved
23-0125.01

State of Florida Approved
FL-17649

* Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide.



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