

GAF Unisil Silicone Roof Coating – Data Sheet

PRODUCT 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 & SHELF LIFE

PRODUCT STORAGE TEMPERATURE:
50°F – 90°F (10°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 & 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 & 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. Do not leave product in the pump or hoses.

APPLICATION RATE FOR LIMITED WARRANTY ON GAF LIQUID-APPLIED ROOF COATINGS

Limited Warranty Term	10 year	15 year	20 year
Number of Gallons Per Square	2.0	2.75	3.5
Dry Film Thickness, Mils	23	31	40

For application rates and other requirements for system guarantees and warranties, see *Liquid-Applied Roofing Manual* at gaf.com.

For application questions, contact GAF Technical Support Services at **1-877-GAF-ROOF**

We protect what matters most™



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PHYSICAL PROPERTIES (ASTM D 6694/D 66994M-21)

Table 1: Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values ¹
Volume Solids	ASTM D 2697	57% min.	71%
Weight Solids	ASTM D 1644	As listed by manufacturer	81%

Table 2: Film Physical Property Requirements for Cured Silicone Coating for Use on SPF

Type	ASTM Test Method	ASTM Minimum Values	Test Values ¹
Initial Percent Elongation	ASTM D 2370	Min. 100%	550%
Initial Tensile Strength	ASTM D 2370	Min. 150 psi	300 psi
Tear Resistance	ASTM D 624	Min. 20 lbf/in	31 lbf/in

Table 3: Additional Physical Properties

Type	ASTM Test Method	Test Values ¹
VOC	ASTM D 3960	<50 g/L
Weight per Gallon/Liter	ASTM D 1147	10.2 lbs (1.2 kg)
Dry Time	-	5 hours at 70°F (21°C) 50% R.H
Standard Colors	-	White, Light Gray, Dark Gray, Tan

¹ Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide.

APPROVALS

ANSI/UL 790 Class A	UL Listed*					
CRRC (Cool Roof Rating Council) coolroofs.org	WHITE (Product ID 0676-0156)					
	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
	Smooth: Initial: 0.83 Aged: 0.72	Rough: Initial: 0.83 Aged: 0.68	Smooth: Initial: 0.89 Aged: 0.90	Rough: Initial: 0.91 Aged: 0.90	Smooth: Initial: 104 Aged: 88	Rough: Initial: 104 Aged: 83
State of Florida Approved (FBC)	FL-17649					
Miami-Dade County NOA***	23-0125.01					
Title 24	Can be used to comply with the 2022, Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations (white only)					

*Refer to UL Product iQ for actual assemblies