



Unisil High Solids Silicone Roof Coating – Data Sheet

PRODUCT DESCRIPTION

GAF Unisil High Solids Silicone Roof Coating is a high-solids, 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. **GAF Unisil High Solids Silicone Roof Coating** can be applied in a single coat.

APPROVED SUBSTRATES

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

PACKAGING SIZES

1 gallon (3.8 liter) bucket
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 should 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. **GAF Unisil High Solids Silicone Roof Coating** can be applied in one pass up to 2.5 gallons per 100 ft² (10.2 L per 10 m²) as long as the substrate and slope conditions allow (no slumping), and the required DFT (mils) are met. Apply additional coats perpendicular to the previous coat once it is dry enough to walk on. Total coverage is dependent on the substrate.

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	1.5	2.0	2.5
Dry Film Thickness, Mils	23	31	39
For application rates and other requirements for system guarantees and warranties, see <i>Liquid-Applied Roofing Manual</i> 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.	97%
Weight Solids	ASTM D 1644	As listed by manufacturer	98%

Table 2: Film Physical Property Requirements for Cured Silicone Coating

Type	ASTM Test Method	ASTM Minimum Values	Test Values ¹
Initial Percent Elongation	ASTM D 2370	Min. 100%	235%
Initial Tensile Strength	ASTM D 2370	Min. 150 psi	478 psi
Permeance	ASTM E 96/E 96M	Min. 2.5 perms	8.7 perms
Tear Resistance	ASTM D 624	Min. 20 lbf/in	28 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	-	11.5 lbs (1.37 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*					
Factory Mutual	FM Approved**					
NSF Certified	WHITE - NSF P151 Health Effects from Rainwater Catchment System Components					
CRRC (Cool Roof Rating Council) coolroofs.org	WHITE - (Product ID 0676-0157)					
	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
	Smooth Initial: 0.84 Aged: 0.71	Rough Initial: 0.81 Aged: 0.67	Smooth Initial: 0.91 Aged: 0.90	Rough Initial: 0.93 Aged: 0.94	Smooth Initial: 106 Aged SRI: 87	Rough Initial: 102 Aged: 82
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

**Refer to FM RoofNav for actual assemblies