



# High Solids Silicone Roof Coating – Data Sheet

## PRODUCT DESCRIPTION

**GAF High Solids Silicone Roof Coating** is a high-solids, moisture-cure silicone coating that provides protection against weather elements, UV rays, and 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: 40°F – 90°F (5°C – 32°C) Do NOT allow coating to freeze.

SHELF LIFE: 24 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](http://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](http://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 High Solids Silicone** can be applied in one pass up to 2.75 gallons per 100 ft<sup>2</sup> (11.2 L per 10 m<sup>2</sup>) 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 (4°C). Do NOT heat containers.

**APPLICATION SURFACE TEMPERATURE:** 40°F (4°C) and rising. Care should be taken when coating surfaces above 120°F. Contact GAF Design Services if you have application questions.

Do NOT apply if rain, dew, fog, heavy moisture, condensation, or freezing temperatures are in the 8-hour forecast to ensure proper cure. Cool temperatures/high humidity may slow curing.

## 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. Leave solvent in the lines and equipment until next use. Do not leave product in the pump or hoses.

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

We protect what matters most™





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## PHYSICAL PROPERTIES (ASTM D6694 / D6694M-21)

**Table 1: Liquid Physical Property Requirements**

Type	ASTM Test Method	ASTM Minimum Values	Test Values <sup>1</sup>
Volume Solids	ASTM D 2697	57% min.	96.60%
Weight Solids	ASTM D 1644	As listed by manufacturer	96.57%

**Table 2: Film Physical Property Requirements**

Type	ASTM Test Method	ASTM Minimum Values	Test Values <sup>1</sup>
Initial Percent Elongation	ASTM D 2370	Min. 100%	261%
Initial Tensile Strength	ASTM D 2370	Min. 150 psi	299 psi
Permeance	ASTM E 96/E 96M	Min. 2.5 perms	6.19 perms
Accelerated Weathering (5,000 h)	ASTM D 4798	No cracking/checking	Pass
Adhesion to SPF	ASTM D 903	Min. 2.0 pli wet	Pass
Tear Resistance	ASTM D 624	Min. 20 lbf/in	30 lbf/in
Low Temperature Flexibility	ASTM D 522	Min. Pass 0.5" mandrel -15°F	Pass

**Table 3: Additional Physical Properties**

Type	ASTM Test Method	Test Values <sup>1</sup>	
VOC	ASTM D3960	< 50.0 g/L	
Solar Reflective Index (SRI)	ASTM C1549	Smooth, White Only 111 initial, 84 aged**	Rough, White Only 101 initial, 78 aged**
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 4482)	FM Approved**	
State of Florida Approved	FL17649	
Miami-Dade County NOA	23-0125.01	
CRRC (Cool Roof Rating Council) coolroofs.org	Solar Reflectance (Smooth, White Only) 0.88 initial, 0.69 aged***	Thermal Emittance (Smooth, White Only) 0.90 initial, 0.90 aged***
	Solar Reflectance (Rough, White Only) 0.81 initial, 0.64 aged***	Thermal Emittance (Rough, White Only) 0.91 initial, 0.90 aged***
ASTM	Meets or Exceeds ASTM D6694	
Title 24	Can be used to comply with the 2019, Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations.	

\*Refer to UL Product iQ for actual assemblies

\*\*Refer to RoofNav for actual assemblies

\*\*\*CRRC Rapid Ratings: Intertim laboratory aged values that simulate naturally-aged value and will be replaced by the measured three-year aged values upon completion of the weathering process.

