GAF High Solids
Silicone Roof Coating



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 and Shelf Life:

Product Storage Temperature: 40°F – 90°F (4°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, 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 High Solids Silicone can be applied in one pass up to 2.75 gallons per 100 ft.² (11.2 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 and Precautions:

Application Air Temperature: min. 40°F (5°C). Do not heat containers.

Application Surface Temperature: 40°F (5°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 2-hour forecast to ensure proper cure. Cool temperatures/low humidity may slow curing.

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.



Visit **gaf.com**

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

We protect what matters most™

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Physical Properties — (ASTM D6694)

Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values*
Volume Solids	ASTM D2697	57% min.	96.60%
Weight Solids	ASTM D1644	As listed by manufacturer	96.57%

Film Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values*
Initial Percent Elongation	ASTM D2370	Min. 100%	261%
Initial Tensile Strength	ASTM D2370	Min. 150 psi	299 psi
Permanence	ASTM E96/E96M	Min. 2.5 perms	6.19 perms
Accelerated Weathering (5,000 h)	ASTM D4798	No cracking/checking	Pass
Adhesion to SPF	ASTM D903	Min. 2.0 pli wet	Pass
Tear Resistance	ASTM D624	Min. 20 lbf/in	30 lbf/in
Low Temperature Flexibility	ASTM D522	Min. Pass 0.5" mandrel -15°F	Pass

Additional Physical Properties

Type	ASTM Test Method	Test Values*
VOC	ASTM D3960	< 50.0 g/L
Standard Colors	—	White, Light Gray, Dark Gray, Tan

Sustainability Ratings/Certifications

Cool Roof Rating Council (CRRC)

Rated Product ID #	Type	Solar Reflectance (ASTM C1549)	Thermal Emittance (ASTM C1371)	Solar Reflective Index (SRI) (ASTM E1980)
White (Smooth) 0676-0160	Initial	0.88	0.90	112
	Aged	0.69†	0.90†	85†
White (Rough) 0676-0160	Initial	0.81	0.91	102
	Aged	0.64†	0.90†	78†

Applicable Standards/Approvals

	UL Listed ANSI/UL 790 Class A. Refer to UL Product iQ for actual assembles.	CRRC Rated - Can be used to comply with the 2022, Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations (white only).
	FM Approved Refer to RoofNav for actual assemblies.	Meets or Exceeds the requirements of ASTM D6694
	Miami-Dade County Product Control Approved	**State of Florida Approved**
	For information/requirements, refer to: www.nsf.org	

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

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