

GAF High Tensile

Acrylic Top Coat



Description:

GAF High Tensile Acrylic Top Coat is a water-based, acrylic elastomeric top coat that is part of the GAF Acrylic Coating System. GAF High Tensile Acrylic Topcoat is designed to be applied over GAF Acrylic Base Coat. It has high tensile emulsion polymers combined with reinforcing pigments for strong physical properties and durability that help provide protection against damage from exposure to UV and weather elements.

Approved Substrates:

New and existing metal, structural concrete, TPO, PVC, Hypalon®, SPF, EPDM, and asphaltic roofs. New TPO and asphaltic roofs should be weathered for at least 30 days. Do NOT use on gravel-surfaced roofs or shingle roofs.

Packaging Sizes:

- 5 gallon (19 liter) pail
- 55 gallon (208 liter) drum
- 275 gallon (1041 liter) tote

Storage and Shelf Life:

Product Storage Temperature: 50°F – 90°F (10°C – 32°C) do not allow coating to freeze.

Shelf Life: 18 months from date of manufacture in unopened containers, if stored properly in a clean and well-ventilated area.

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. Do NOT apply more than 1.5 gallons per 100 ft² (6.1 L per 10 m²) in a single coat. Apply additional coats perpendicular to the previous coat once it is dry enough to walk on. Total coverage is dependent on the substrate.

Warranty:

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

Limitations and Precautions:

Application Air Temperature: min. 50°F (10°C). Do not heat containers.

Application Surface Temperature: 50°F (10°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 and Handling:

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

Clean Up:

Use water and soap to thoroughly flush equipment.



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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 D6083)

Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM D6083 Minimum	Test Values*
Volume Solids	ASTM D2697	≥50%	52%
Weight Solids	ASTM D1644	≥60%	62%

Film Physical Property Requirements

Type	ASTM Test Method	ASTM D6083 Minimum	Test Values*
Initial Percent Elongation	ASTM D2370	100% @73°F	500%
Initial Tensile Strength	ASTM D2370	200 psi @73°F	550 psi
Final Percent Elongation	ASTM D2370	100% @73°F	Pass
Permanence	ASTM D1653	Max. 50 perms	2.5 U.S. Perms @ 20 mils
Accelerated Weathering	ASTM D4798	No cracking/checking	1,000 hours: Pass
Adhesion	ASTM D903	2.0 pli wet	Meets ASTM D6083
Low Temperature Flexibility	ASTM D522	Pass 0.5" mandrel -15°F	Passes Type 1

Additional Physical Properties

VOC	—	<25 g/L
Hardness	ASTM D2240	75 to 80 Shore A
Dry Time	ASTM D 5895	To Touch: 65 Minutes, 72°F (24°C), 50% RH @30 wet mils [ASTM D5895] Dry times will increase with higher humidity and/or lower temperature
Service Temperature Limits (Installed Coating)	—	-30°F – 200°F (-35°C – 93°C)
Standard Colors	—	White and Light Gray

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

Sustainability Ratings/ Certifications



Cool Roof Rating Council (CRRC)

Product ID	Type	Solar Reflectance	Thermal Emittance	Solar Reflectance Index (SRI)
Smooth White 0676-0116a	Initial	0.83	0.91	104
	Aged	0.71	0.91	87
Rough White 0676-0116a	Initial	0.81	0.91	101
	Aged	0.69 [†]	0.90 [†]	84 [†]
Smooth Light Tan 0676-0162	Initial	0.63	0.91	76
	Aged	0.59 [†]	0.91 [†]	71 [†]
Rough Light Tan 0676-0162	Initial	0.54	0.91	64
	Aged	0.51 [†]	0.91 [†]	60 [†]

Applicable Standards/ Approvals



Classified by UL in accordance with ANSI/UL 790 (Refer to UL Product iQ for actual assemblies).

CRRC Rated - Can be used to comply with Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations (White and Light Tan only).



FM Approved
(Refer to RoofNav for actual assemblies).

[†] CRRC Rapid Ratings: Interim laboratory aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.

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