



High Tensile Acrylic Top Coat – Data Sheet

PRODUCT 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
54 gallon (204 liter) drum
275 gallon (1041 liter) tote

STORAGE & SHELF LIFE

PRODUCT STORAGE TEMPERATURE: 50°F – 90°F (10°C – 32°C) Do NOT allow coating to freeze.

SHELF LIFE: 18 months 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. See below for minimum coverage requirements

WARRANTY

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

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

Limited Warranty Term	5 Years	7 Years	10 years	12 years	15 years
Number of Gallons Per Square	2	2.5	3	3.5	4
Dry Film Thickness	16	20	25	29	33

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

LIMITATIONS & 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 & 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.

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

We protect what matters most™





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PHYSICAL PROPERTIES (ASTM D 6083-21)

Table 1: Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values ¹
		Type I	
Volume Solids	ASTM D 2697	≥50%	52%
Weight Solids	ASTM D 1644	≥60%	62%

Table 2: Cured Film Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values	Test Values ¹
		Type I	
Initial Percent Elongation	ASTM D 2370	Min. 100% @73°F	500%
Initial Tensile Strength	ASTM D 2370	Min. 200 psi @73°F	550 psi
Final Percent Elongation	ASTM D 2370	Min. 100% @73°F	Pass
Permeance	ASTM D 1653	Max. 50 perms	2.5 U.S. Perms @ 20 mils
Accelerated Weathering	ASTM D 4798	No cracking/checking	1,000 hours: Pass
Adhesion	ASTM D 903	Min. 2.0 pli wet	Meets ASTM D6083
Low Temperature Flexibility	ASTM D 522	Min. Pass 0.5 in. mandrel -15°F	Passes Type I

Table 3: Additional Physical Properties

Type	ASTM Test Method	Test Values ¹
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, Dove Gray, Gray, Cotton, Desert Sand, Light Tan, Slate Blue, and Patina Green. See GAF Roof Coatings Solution Guide. *Customized tinting available

1. Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide. For specific physical property information on GAF Premium Acrylic HydroStop® Base Coat and Fabric components or information on GAF Premium Acrylic HydroStop® System, please refer to individual Technical Data Sheets.

APPROVALS

ANSI/UL790 Class A Roofing Fire Rating*	Classified as a spray applied foam and coating system as outlined in the UL Roofing Materials & Systems Directory and UL website		
Factory Mutual (FM 4470)	Passes FM Severe Hail** Factory Mutual Approved for recover over FM rated BUR or insulated metal panels**		
Title 24	Rated by the Cool Roof Rating Council (CRRC) for use in Title 24 Projects WHITE - Smooth (Product ID 0614-0004a)		
CRRC (Cool Roof Rating Council) Coolroofs.org	Solar Reflectance Initial: 0.83 Aged: 0.71	Thermal Emittance Initial: 0.91 Aged: 0.91	Solar Reflective Index (SRI) Initial: 104 Aged: 88

* Refer to UL Product IQ for actual assemblies.

**Refer to FM RoofNav for actual assemblies.

