

GAF Elastuff® 101

Polyurethane Base Coat



Description:

Elastuff® 101 Base Coat Roof Coating is a high solids, moisture cured, single-component aromatic polyurethane base coat. It is used in a system that consists of Elastuff® 101 base coat and Elastuff® 103 top coat. This combination provides an excellent balance of tensile strength, elongation and hardness, resulting in superior durability, dirt and mildew resistance, chemical resistance and weatherproofing. High abrasion and impact resistance also offer protection from maintenance traffic and severe weather conditions. Elastuff® 101 & Elastuff® 103 system is a permanently flexible “breathing” membrane, allowing moisture vapor to pass through the film while preventing water infiltration.

Approved Substrates:

New and existing metal, structural concrete, TPO, PVC, EPDM, Hypalon®, SPF, 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 L)
- 55 gallon (208 L) drum

Warranty:

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

Storage and Shelf Life:

Product Storage Temperature: 40°F – 90°F (4°C – 32°C) do not allow coating to freeze.

Shelf Life: 6 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. Do NOT apply more than 1.5 gallons per 100 ft² (6.1 L per 10 m²). Total coverage is dependent on the substrate. All surfaces must be uniformly coated and free from voids, pinholes, or blisters. Moisture curing in hot humid weather requires application of thinner coats. Drier weather may require misting of the membrane. Elastuff® 101 Base Roof Coating MUST be top coated within 48 hours with an approved top coat.

Limitations and 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 and Handling:

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

Clean Up:

Use xylene or Naphtha 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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Liquid Physical Properties

Type	ASTM Test Method	Test Values*
Volume Solids	ASTM D2697	80%
Weight Solids	ASTM D1644	82%
Flash Point	ASTM D3278	80°F (26°C)

Cured Film Physical Properties

Type	ASTM Test Method	Test Values*
Initial Percent Elongation	ASTM D2370	500%
Initial Tensile Strength	ASTM D2370	1000 psi

Additional Physical Properties

Type	ASTM Test Method	Test Values*
VOC	—	<250 g/L
Hardness	ASTM D2240	65 to 70 Shore A
Tear Strength	ASTM D1004	125 lb. per inch
Dry Time	ASTM D5895	6 – 8 hrs @ 24 wet mils with booster Dry Times at 70°F (21°C), 50% RH
Standard Colors	—	Light Gray

Additional Physical Properties for Combined Elastuff® 101 & Elastuff® 103 System

Type	ASTM Test Method	Test Values*
Abrasion Resistance	ASTM D4060	Less than 35 milligrams weight loss using CS-17 abrasive wheels and 1000 gram weights after 1000 cycles on Taber Abraser
High Temperature Stability	ASTM D794	Tested in thermostatically controlled heat chamber. Will not age harden or slump at temperatures up to 200°F (93°C)
Low Temperature Flexibility	Federal Test Method No. 141a-6221	Passes 180 degree flex over 1/8" (3 mm) mandrel at -7°F (-22°C)
Low Temperature Impact Resistance	—	No surface cracks or breaks when impacted with 4.6 oz (130 gram), 1 1/4" (3.18 cm) steel ball dropped from a height of 5' (1.5 m) at -12°F (-25°C)
Service Temperature Limits (Installed Coating)	—	-30°F - 200°F (-34°C - 93°C)
Ponded Water Adhesion	—	5" (12.7 cm) column of water over polyurethane foam coated with the Elastuff® 101 & Elastuff® 103 system. No significant loss of adhesion after 30 days of continuous testing. No blistering or other deleterious effects. No migration of water into the substrate.

Approvals



UL Listed
ANSI/UL 790 Class A. Refer to UL Product iQ for actual assemblies.

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

