GAF Diathon® HT
High Tensile Roof Coating

Description:

Diathon® HT Roof Coating is a high tensile water-based top coat for spray polyurethane foam with excellent physical properties, durability, protection against the damaging effects of weather elements and UV rays. Diathon® HT Roof Coating is a "breathable" coating, allowing moisture vapor to pass through the film while resisting mass water penetration.

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 SPF, flashings, and penetrations. Conduct test patches to verify adhesion of coating prior to start of work.

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 rate of 2 gallons per 100 ft².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. See Limited Warranty on GAF Silicone Roof Coatings at gaf.com for complete coverage and restrictions.

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.

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 D 6083-21)

Liquid Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values (Type 1)	Test Values*
Volume Solids	ASTM D2697	≥50%	52%
Weight Solids	ASTM D1644	≥60%	62%

Film Physical Property Requirements

Type	ASTM Test Method	ASTM Minimum Values (Type 1)	Test Values*
Initial Percent Elongation	ASTM D2370	Min. 100% @73°F	500% @ 70°F (21°C)
Initial Tensile Strength	ASTM D2370	Min. 200 psi @73°F	550 psi @ 70°F (21°C)
Permanence	ASTM D1653	Max. 50 perms	2.5 U.S. Perms @ 20 mils

Additional Physical Properties

Type	ASTM Test Method	Test Values*
VOC	—	<50 g/L
Hardness	ASTM D2240	75 to 80 Shore A
High Temperature Stability	ASTM D794	No age hardening or slump up to 250°F (121°C)
Bond Strength	ASTM C794	Exceeds cohesive strength of coating
Dry Time	ASTM D1640	White: 5 hours, 75°F (24°C), 50% RH @ 16 wet mils (406 microns)] 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

Approvals

CRRC (Cool Roof Rating Council)
coolroofs.org

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

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

Title 24
Can be used to comply with Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations.

FM Approved
FM 4470
Factory Mutual Approved for recover over FM rated BUR or insulated metal panels. Refer to RoofNav for actual assemblies.

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

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