GAF Diathon® Base Coat

Description:

GAF Diathon® Base Coat Roof Coating is an elastomeric acrylic coating used in a basecoat/topcoat system to build film thickness prior to application of a GAF Diathon top coat over spray polyurethane foam (SPF). GAF Diathon® Base Coat Roof Coating is designed for easy application with conventional or airless spray equipment, as well as brush or roller.

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. For previously coated SPF roofs, conduct test patches to verify adhesion of coating prior to start of work.

Mixing: Mix uniformly for a minimum of 3 minutes prior to use. Do NOT attempt to thin or self-tint.

Application: Apply to new polyurethane foam surfaces within 72 hours after final application, depending on climate and manufacturer (refer to foam manufacturer for more information). Apply by brush, roller, or airless sprayer evenly at the rate of 1.5 gallons per 100 ft². Do NOT apply more than 1.5 gallons per 100 ft² (6.1L 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™

Diathon®
Base Coat

Physical Properties

Liquid Physical Property Requirements		
Type	**ASTM Test Method**	**Test Values***
Volume Solids	ASTM D2697	52%
Weight Solids	ASTM D1644	66%
Cured Film Physical Property Requirements		
Initial Percent Elongation	ASTM D2370	200%
Initial Tensile Strength	ASTM D2370	325 psi
Permeance	ASTM D1653	2.7 US perms at 22 dry mils (155 ng/(Pa.s.m²) @ 560 microns)
Low Temperature Flexibility	ASTM D522	Passes 180° flex over 1/2" (1.2 cm) mandrel @ -5°F (-21°C)
Additional Physical Requirements		
VOC	—	<25 g/L
Hardness	ASTM D2240	Hardness 60 to 70 Shore A
Dry Time	ATSM 5895	4 hours at 75°F (24°C), 50% R.H. Light Gray at 16 wet mils (406 microns) Required times will increase at higher humidities
Service Temperature Limits (Installed Coating)	—	0°F – 200°F (-18°C – 93°C)
Standard Colors	—	Light Gray and Light Tan

Approvals

CLASSIFIED UL	**UL Listed** ANSI/UL 790 Class A. Refer to UL Product iQ for actual assembles.	MIAMI-DADE COUNTY APPROVED	**Miami-Dade County Approved** 24-0402.08
FM APPROVED	**FM Approved** FM 4470 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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