

# **SBS Hot-Mopped & Cold Adhesive Roofing (COMGN289)**

Updated: 1/17



*Quality You Can Trust...From  
North America's Largest Roofing Manufacturer!™*



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## GAF ROOF GUARANTEE PROGRAM

GAF offers an extensive selection of roof guarantees to meet the needs of most building owners. The following guarantees are available for use with selected GAFGLAS®, RUBEROID®, and LIBERTY™ Roof Systems when installed by an eligible GAF factory-certified contractor. Contact GAF Technical Services for additional information and specific guarantee requirements.

GAF Roof Guarantee Type	Coverage	Term
All-American Pledge™ Steep- and Low-Slope Roof Guarantee	NDL	5 to 20 Years
GAF Diamond Pledge™ NDL Roof Guarantee	NDL	5 to 20 Years
GAF System Pledge™ Roof Guarantee	Specified \$ per square	5 to 20 Years
WellRoof® Guarantee Extension*	Extends Diamond Pledge™ Coverage	25% longer term

\*A program that encourages property owners to utilize an annual maintenance agreement; when certain requirements are met, GAF will extend its Diamond Pledge™ NDL Guarantee by 25%. Contact Technical Services at 1-800-766-3411 for qualifying specifications and detailed information. All work must be completed by a GAF Certified Maintenance Professional (CMP). See WellRoof® Guarantee Extension for complete coverage and restrictions.

Restoration/Extension/Limited Material Warranties and Guarantees**	Coverage	Term
Weather Stopper® Integrated System Limited Warranty	NDL	5 to 20 Years

\*\*Contact GAF Technical Services for additional information and guarantee requirements.

# HOT-MOPPED & COLD-ADHESIVE APPLIED

## Roofing Systems Product Catalog

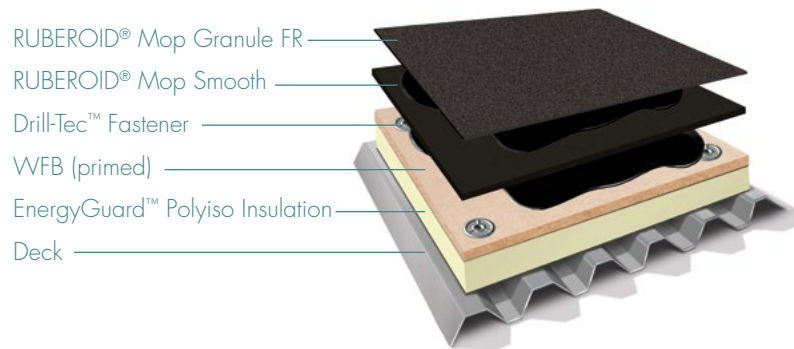
Refer to these manuals for application and systems specifications and system guarantees, available at [gaf.com](http://gaf.com). For further information, contact Technical Services at 1-800-ROOF-411 (1-800-766-3411).



# HOT-MOPPED AND COLD-ADHESIVE APPLIED SBS MODIFIED BITUMEN

Modified bitumen systems provide the features of a BUR system without the need to apply multiple plies to achieve a layered system. Modified bitumen systems are composed of a base sheet and a cap sheet that can be either granule or smooth. They were designed to reduce labor requirements for installation and have become increasingly popular over BUR system applications.

Styrene Butadiene Styrene (SBS) modified bitumen systems promise increased flexibility and stronger expansion and contraction capabilities in cold weather—with the added benefit of low maintenance. These types of membranes provide a multi-layered approach to low-slope roofing with different membranes. SBS offers a BUR system (with fewer layers) that can be heat-welded or applied with hot asphalt or cold adhesive.



**TYPICAL 2-PLY SBS COLD-APPLIED SYSTEM OVER ISO AND WFB (CAN ALSO BE HOT-MOPPED)**

## CHOOSING THE RIGHT ASPHALTIC ROOFING SYSTEM

Choosing the right roofing system for an application can be complicated. There are many roof membrane options, and each property may have its own set of unique requirements. So, how do you choose the right roofing system for your property?

- = Top Performance
- ◐ = Excellent Performance
- ◑ = Good Performance
- ◒ = Not Recommended

(Ratings based on GAF estimates and contractor interviews)

Desired Characteristic	LIBERTY™ Self Adhered	HOT MOPPED / COLD APPLIED RUBEROID™ SBS Top RUBEROID™ SBS Cap Applied	HEAT WELDED RUBEROID™ SBS HV	TORCH APPLIED RUBEROID™ APP Torch	BUILT-UP ROOFING GAF BUR™ Built Material
Multi-Layered Membrane Protection	◑	◐	◑	◑	●
Flexes To Conform To Normal Roof Movement	◑	◐	◑	◑	◑
Low Maintenance	●	◐	●	●	●
Light Reflective For Energy Savings	◑	◐	◑	◑	◑
Puncture/Leak Resistant	◑	◐	◑	◑	◑
Easy To Repair After Installation	●	◐	●	●	◑
Heat Welded, Self Adhered, Torched, Cold Applied, Or Mopped Seam Strength	◑	◐	●	●	●
Grease/Oil/Chemical Resistant <sup>1</sup>	◑	◐	◑	◑	◑
Can Be Installed In Cool Weather	◑	◐	●	◑	◑
High Heat and UV Resistance	◑	◐	◑	◑	◑
Maximum Guarantee Length In Years*	20	20 20	20	20	20

<sup>1</sup>Note: For complete details, restrictions, requirements, terms, and conditions, please refer to official guarantee document and applicable GAF specification manual.  
<sup>2</sup>See applicable GAF guarantee for specific exclusions  
<sup>3</sup>Requires the use of RUBEROID® EnergyCap™ Products

# ROOFING ACCESSORIES

## ADHESIVES, PRIMERS & SEALANTS

GAF offers a complete line of premium, asbestos-free modified adhesives and cements. Whether installing a new membrane with cold-process adhesive or installing new or repairing flashings around openings and penetrations, our products offer performance that is durable and cost effective. Refer to the Technical Data Sheet for specific application usage and instructions.

### Cold-Applied Adhesives

- MATRIX 101 Premium SBS Membrane Adhesive
- MATRIX 102 SBS Membrane Adhesive

### Patching & Repair Cement

- MATRIX 201 Premium SBS Flashing Cement
- MATRIX 202 SBS Flashing Cement
- MATRIX 203 Plastic Roof Cement
- MATRIX 204 Wet/Dry Roof Cement
- MATRIX 220 Two-Part Flashing Cement

### Roof Primers & Sealants

- MATRIX 307 Premium Asphalt Primer
- M-Thane™ One-Part Pourable Sealant (white)
- M-Thane™ Two-Part Sealant (black)
- M-Bond™ Adhesive/Sealant

## FLASHING ACCESSORIES

GAF offers factory-built flashing accessories to complement asphaltic roofing systems. They are available for use with SBS or APP smooth or granule surface, and provide a professional, clean finish to roofing jobs.









## EXPANSION JOINT COVERS

GAF has designed the most flexible group of expansion joint covers in the industry. Metalastic® Expansion Joint Covers eliminate splice joints every 10' (3.05 m) and promote trouble-free roofing system performance. Available in four standard types.



# HOT-MOPPED AND COLD-ADHESIVE APPLIED SBS MODIFIED BITUMEN

## POLYESTER MAT (D6164) PRODUCTS

SMOOTH BASE SHEET		GRANULE CAP SHEETS					
<b>Product</b>	<b>RUBEROID® Mop Plus Smooth</b> 	<b>RUBEROID® Mop Smooth 1.5</b> 	<b>RUBEROID® Mop Granule</b> 	<b>RUBEROID® Mop Granule FR</b> 	<b>RUBEROID® Mop Plus Granule FR</b> 	<b>RUBEROID® EnergyCap™ Mop Plus Granule FR</b> 	<b>Product</b>
<b>Primary Application Method</b>	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	<b>Primary Application Method</b>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Heavyweight polyester mat core resists splits and tears due to its pliability and elongation characteristics</li> <li>• Specially formulated modified asphalt gives lasting performance</li> <li>• Lightweight and coated with flexible, SBS polymer modified asphalt and is smooth surfaced</li> </ul>	<ul style="list-style-type: none"> <li>• Tough, resilient modified bitumen membrane manufactured to stringent GAF specifications</li> <li>• Lightweight</li> <li>• Durable - specially formulated modified asphalt gives lasting performance</li> <li>• Polyester mat core allows it to resist splits and tears</li> </ul>	<ul style="list-style-type: none"> <li>• Polyester mat core allows it to resist splits and tears</li> <li>• Lightweight</li> <li>• Available in granulated black, white, burnt sienna blend, cedar blend, slate blend, and weathered wood blend</li> <li>• Durable specially formulated modified asphalt for lasting performance</li> </ul>	<ul style="list-style-type: none"> <li>• Specially formulated modified asphalt provides lasting performance</li> <li>• No coating required for Class A ratings from UL and FMRC</li> <li>• Available in black or white granules</li> <li>• Special polyester mat core resists splits and tears</li> </ul>	<ul style="list-style-type: none"> <li>• Resilient polyester mat core allows it to resist splits and tears due to its pliability and elongation characteristics</li> <li>• Lightweight</li> <li>• Coated with inherently fire-retardant SBS polymer-modified asphalt</li> <li>• No coating required for Class A ratings from UL and FMRC</li> </ul>	<ul style="list-style-type: none"> <li>• Specially formulated modified asphalt provides lasting performance</li> <li>• Available in highly reflective brilliant white only</li> <li>• Heavyweight polyester mat core allows it to resist splits and tears due to its pliability and elongation characteristics</li> <li>• Designed with a factory-applied layer of EnergyCote™ elastomeric coating</li> </ul>	<b>Advantages</b>
<b>ASTM</b>	D6164, Type II, Grade S	D6164, Type I, Grade S	D6164, Type I, Grade G	D6164, Type I, Grade G	D6164 Type II, Grade G	D6164 Type II, Grade G	<b>ASTM</b>
<b>Applicable Standards</b>	FM Approved Miami-Dade County Product Control Approved UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed City of Los Angeles RR 25271	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed City of Los Angeles RR 25271	FM Approved UL/ULc Listed	<b>Applicable Standards</b>
<b>Guarantees<sup>1</sup></b>	Guarantees are available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	System guarantees are available for up to 20 years	System guarantees are available for up to 20 years	<b>Guarantees<sup>1</sup></b>
<b>Product Specifications</b>	<b>Roll Size:</b> 1 square (107.5 gross sq. ft.) (9.9 m <sup>2</sup> ) <b>Roll Length:</b> 32.56' (9.9 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 80 lb. (36.29 kg) <b>Product Thickness:</b> 0.120" (3.05 mm)	<b>Roll Size:</b> 1.5 squares (163.5 gross sq. ft.) (15.9 m <sup>2</sup> ) <b>Roll Length:</b> 48.9' (14.9 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 89.5 lb. (40.6 kg) <b>Product Thickness:</b> 0.090" (2.29 mm)	<b>Roll Size:</b> 1 square (107.5 gross sq. ft.) (9.9 m <sup>2</sup> ) <b>Roll Length:</b> 32.56' (9.92 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 90 lb. (41 kg) <b>Product Thickness:</b> 0.140" (3.56 mm)	<b>Roll Size:</b> 1 square (107.7 gross sq. ft.) (10.0 m <sup>2</sup> ) <b>Roll Length:</b> 32.6' (9.9 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 102.5 lb. (46.49 kg) <b>Product Thickness:</b> 0.155" (3.94 mm)	<b>Roll Size:</b> 1 square (107.52 gross sq. ft.) (9.99 m <sup>2</sup> ) <b>Roll Length:</b> 32.56' (9.92 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 103.7 lb. (47.04 kg) <b>Product Thickness:</b> 0.155" (3.9 mm)	<b>Roll Size:</b> 1 square (107.52 gross sq. ft.) (9.99 m <sup>2</sup> ) <b>Roll Length:</b> 32.56' (9.92 m) <b>Roll Width:</b> 39.625" (1.0 m) <b>Approx Roll Weight:</b> 103.8 lbs. (47.04 kg) <b>Product Thickness:</b> 0.155" (3.9 mm) <b>SRI (Solar Reflective Index):</b> 89 <b>Initial Emissivity:</b> 0.83 <b>Initial Reflectivity:</b> 0.73	<b>Product Specifications</b>

<sup>1</sup>See applicable GAF guarantee for complete coverage and restrictions.



# HOT-MOPPED AND COLD-ADHESIVE APPLIED SBS MODIFIED BITUMEN

## FIBERGLASS MAT (D6163) PRODUCTS

	SMOOTH BASE SHEET	GRANULE CAP SHEETS			
<b>Product</b>	<b>RUBEROID® 20 Smooth</b> 	<b>RUBEROID® 30 Granule</b> 	<b>RUBEROID® 30 Granule FR</b> 	<b>RUBEROID® EnergyCap™ 30 Granule FR</b> 	<b>Product</b>
<b>Primary Application Method</b>	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	Hot Applied Cold Applied	<b>Primary Application Method</b>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Ideal base for modified bitumen 20/30 systems</li> <li>• Lightweight</li> <li>• Durable - combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt</li> <li>• Available as a smooth surface</li> </ul>	<ul style="list-style-type: none"> <li>• No coating required - available with black or white granules</li> <li>• Lightweight</li> <li>• Durable - combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt</li> <li>• Ideal for new roofing, re-cover applications, and in the construction of flashings</li> </ul>	<ul style="list-style-type: none"> <li>• No coating required for Class A rating from UL</li> <li>• Core mat is coated with an inherently fire retardant SBS polymer modified asphalt and surfaced with mineral granules (available in black or white)</li> <li>• Durable - combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt</li> </ul>	<ul style="list-style-type: none"> <li>• Durable - combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt</li> <li>• Lightweight modified bitumen membrane available in highly reflective brilliant white only</li> <li>• Coated with fire-retardant SBS polymer modified asphalt and surfaced with extra-fine mineral granules and TOPCOAT® EnergyCote™ Elastomeric Coating</li> </ul>	<b>Advantages</b>
<b>ASTM</b>	D6163 Type I, Grade S	D6163 Type I, Grade G	D6163 Type I, Grade G	D6163 Type I, Grade G C1549 E903	<b>ASTM</b>
<b>Applicable Standards</b>	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved Texas Dept. of Insurance UL/ULc Listed	FM Approved ICC ESR-1274 Miami-Dade County Product Control Approved State of Florida Approved CRRC Listed ENERGY STAR® Certified (U.S. only) UL/ULc Listed	<b>Applicable Standards</b>
<b>Guarantees<sup>1</sup></b>	System guarantees available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	Typical system guarantees available up to 15 years; select systems available for up to 20 years	<b>Guarantees<sup>1</sup></b>
<b>Product Specifications</b>	<b>Roll Size:</b> 1.5 squares (165.1 gross sq. ft.) (15.3 m <sup>2</sup> ) <b>Roll Length:</b> 49.2' (15 m) <b>Roll Width:</b> 39.375" (1.0 m) <b>Approx Roll Weight:</b> 89 lb. (40.37 kg) <b>Product Thickness:</b> 0.085" (2.1 mm)	<b>Roll Size:</b> 1 square (110.5 gross sq. ft.) (10.27 m <sup>2</sup> ) <b>Roll Length:</b> 33.7' (10.3 m) <b>Roll Width:</b> 39.375" (1.0 m) <b>Approx Roll Weight:</b> 95.9 lb. (46.3 kg) <b>Product Thickness:</b> 0.140" (3.56 mm)	<b>Roll Size:</b> 1 square (110.5 gross sq. ft.) (10.27 m <sup>2</sup> ) <b>Roll Length:</b> 32.8' (10 m) <b>Roll Width:</b> 39.375" (1.0 m) <b>Approx Roll Weight:</b> 95.9 lb. (43.50 kg) <b>Product Thickness:</b> 0.140" (3.56 mm)	<b>Roll Size:</b> 1 square (110.5 gross sq. ft.) (10.27 m <sup>2</sup> ) <b>Roll Length:</b> 32.8' (10 m) <b>Roll Width:</b> 39.375" (1.0 m) <b>Approx Roll Weight:</b> 98.4 lb. (44.63 kg) <b>Product Thickness:</b> 0.140" (3.56 mm)	<b>Product Specifications</b>

<sup>1</sup>See applicable GAF guarantee for complete coverage and restrictions.

