

# GAF MATRIX™ 101

Premium SBS Membrane Adhesive



## Description:

MATRIX™ 101 Premium SBS Membrane Adhesive is a low-odor, VOC-Compliant in the SCAQMD cold adhesive designed for installation of SBS-modified bitumen membranes.

MATRIX™ 101 Premium SBS Membrane Adhesive has been specially formulated for ease of installation and enhanced adhesion characteristics. Designed to be used in the application of the field membrane, MATRIX™ 101 Premium SBS Membrane Adhesive is available for use in base flashing applications and at any slopes above 1.5:12 (including at cant transitions).

## Uses:

MATRIX™ 101 Premium SBS Membrane Adhesive is a membrane adhesive only. This product may be used in lieu of hot-mopped asphalt and heat-welded applications over acceptable substrates with recommended membranes. Consult [gaf.com](http://gaf.com) or the published GAF application and specifications manual or contact Design Services at 1-877-423-7663 for additional information.

### Physical Properties

Appearance	Glossy black, semi-mastic
Viscosity @ 77°F (25°C) @ 1/5 sec	15,000 – 20,000 cps
% Solids by weight	>80%
Flash point	>105°F (40.6°C)
VOC content: g/l	Less than 250 g/L
Weight per gallon (lb.)	9.5 – 10 lb. (4.3 – 4.5 kg)
Coverage rate	1.5 – 2 gal. per 100 sq. ft. (5.7 – 7.6 liters)

## Approvals & Certifications:

- Classified by UL in accordance with ANSI/UL 790. (Refer to UL Product iQ for actual assemblies).



- FM Approved (Refer to [RoofNav.com](http://RoofNav.com) for actual assemblies)



- Miami-Dade County Product Control Approved



- State of Florida Approved

- UL ER1306-02

- Meets ASTM D3019

## Packaging:

MATRIX™ 101 Premium SBS Membrane Adhesive is available in

- 5-gallon (18.9 L) pails (net contents 4.75 gallons [18 L])

## Precautions:

### Compatibility & Limitations:

Do not use with any APP modified products. Do not use on wet or damp surfaces, directly over wood, or on surfaces previously covered with coal tar products. Do not install over or under polystyrene insulation. NOTE: MATRIX™ 101 Premium SBS Membrane Adhesive should not be used with any APP-modified or any modified bitumen membranes that have a plastic film surface or are metal foil-faced. Do not use with burn-off film membranes.

### Temperature Range:

Apply only when temperatures are 45°F (7.2°C) and rising. Cold weather will cause product to stiffen, making application difficult. Store for 24 hours at room temperature prior to application.

Do not heat container or attempt to thin this product. Do not apply on substrates that exceed 140°F (60°C).

### Storage/Handling & FIRE WARNING:

MATRIX™ 101 Premium SBS Membrane Adhesive is COMBUSTIBLE and should always be kept away from heat, open flame, and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not allow adhesive to freeze. Product is best if used within one year of manufacture.

Important: Repair leaks promptly to avoid adverse effects, including, but not limited to, mold growth.



## Surface Preparation:

All surfaces must be clean, dry, and free from any foreign matter, such as oil, grease, dirt, or debris that could inhibit the bonding capabilities of the adhesive. On existing roofs, inspect roof deck condition; moisture in old roof may require complete removal of existing roof. Check local building codes; local building codes may require complete removal of existing roof. Contact GAF Design Services for details on cutting out and repairing blisters, buckles, and raised edges for a smooth surface. Check all flashings, edges, drains, valleys, and vents, and repair as needed.

## Application:

### Application Rate:

Application rate is between 1.5 – 2 gal. (5.7 – 7.6 L) per 100 sq. ft. (0.6 – 0.8 L/m<sup>2</sup>) when applied to base sheet. Application rate may vary based on porosity of substrate.

### Application:

Apply adhesive by sprayer or notched squeegee at a rate of 1.5 – 2 gal. (5.7 – 7.6 L) per 100 sq. ft. (0.6 – 0.8 L/m<sup>2</sup>) to primed structural concrete deck, polyiso insulation, SBS-modified asphalt membrane, or other acceptable substrate.

### Application Method:

- **Spray:** A Graco 45.1 pump or equivalent is recommended. Use a reversible, self-cleaning tip with an orifice size of 0.885" (22.48 mm). A minimum 40° fan angle is recommended. Consult equipment manufacturer for optimum psi, spray tip size, length of hose, and number of guns to achieve uniform application.

- **Squeegee:** When using a squeegee, it should have ¼" (6 mm) serrations to apply a uniform, smooth, even coat without gaps, dry areas, or bubbles.
- **Brush:** Apply in a uniform, smooth, even coat without gaps, dry areas, or bubbles.

### Attachment:

The adhesive sets by evaporation of the solvent. After adhesive application, allow 5 – 15 minutes cure time before applying membrane. Unroll modified and base sheet rolls and allow them to relax prior to installation. Broom-in membrane or roll using a 75 lb. (34 kg) roller, making sure that it is lying flat and making full contact with the adhesive.

Roll all side and end laps, making sure a sufficient amount of adhesive is applied to the laps so that a bead of adhesive is visible at all lap edges. NOTE: Do not apply more than two layers of SBS membrane in adhesive.

### Roof Slope:

The roof must have positive drainage. The adhesive may be used on slopes up to 1.5:12; for slopes exceeding 1.5:12, use only MATRIX™ 201 Premium SBS Flashing Cement.

## Clean Up:

Keep containers covered when not in use. Clean equipment and overspray with kerosene, mineral spirits, or petroleum naphtha. Clean hands with waterless hand cleaner.

## Caution:

**Ventilation** — Use with adequate ventilation and close containers when not in use.

If TLV (Threshold Limit Value) is exceeded, respirators are required (NIOSH/OSHA).

Inhalation of high vapor concentration may result in headaches and/or dizziness. Remove individual to fresh air and administer oxygen if breathing is difficult. If breathing has stopped, administer artificial respiration, keep victim warm, and order emergency medical attention immediately.

**Eye Contact** — Rinse immediately with water for 15 minutes and seek medical advice.

**Personal Protection** — Irritation may result from prolonged or repeated contact with skin. Wear chemical-resistant gloves, protective goggles, and protective clothing, if needed.

**Fire Protection** — MATRIX™ 101 Premium SBS Membrane Adhesive is **COMBUSTIBLE** and should always be kept away from heat, open flame, and any source of ignition.

**Waste Disposal** — Empty containers must be disposed of in an approved landfill in accordance with local, state, and federal regulations.

### For Application Questions:

Contact GAF Design Services at 1-877-423-7663 or visit [gaf.com](http://gaf.com).



Visit [gaf.com](http://gaf.com)

For additional information, contact GAF Design Services at 1-877-423-7663 or [designservices@gaf.com](mailto:designservices@gaf.com)

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