

MATRIX™ 102

SBS Membrane Adhesive

Updated: 8/16



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



MATRIX™ 102

SBS MEMBRANE ADHESIVE (1 OF 2)

Superior
Bonding
Strength
& Flexibility

Description

Matrix™ 102 SBS Membrane Adhesive is an asbestos-free, fiber-reinforced rubberized adhesive with a bonding strength designed specifically for cold-applied modified bitumen membranes.

- Superior bonding strength and high flexibility to accommodate temperature-related expansion and contraction of the roof system
- Exclusive SURE GRIP™ Technology with superior bonding strength and high flexibility
- Low-odor formulation for a better environment for installer and building occupants
- Easy application...sprayer, brush, or notched squeegee—maintains excellent low-temperature flexibility

Uses

Matrix™ 102 SBS Membrane Adhesive is a cold-applied adhesive for modified bitumen systems (in place of hot asphalt) to adhere:

- SBS base, interply & cap sheets
- Existing smooth asphalt roofs
- Type G2 asphalt-coated glass base sheet

Approvals & Certification

Matrix™ 102 SBS Membrane Adhesive is listed and approved by the following agencies or code bodies: Underwriters Laboratories (UL), Factory Mutual (FM). Meets or exceeds the requirements of ASTM D3019 Lap Adhesive used with Asphalt Roll Roofing, Type III. Approvals may vary by region. Be sure to review pail labels before purchase.

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 Technical 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 gallons (5.7–7.6 liters) per 100 square feet (.6–.8 L/m²) when applied to base sheet. Application rate may vary based on porosity of substrate.

Application: Stir before application. Apply adhesive by sprayer, brush, or notched squeegee at a rate of 1.5–2.0 gallons (5.7–7.6 liters) per 100 square feet (.6–.8 L/m²) to primed structural concrete deck, polyisocyanurate insulation, Type G2 base sheet, or SBS modified asphalt membrane.

Application Method: Spray: A Graco 45.1 pump or equivalent 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 1/4" (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, 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™ 202 SBS Flashing Cement.

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™ 102 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 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).



CODE APPROVALS



Cements and coatings for roofing systems as to external fire exposure.

Product Specifications (Nominal)

Weight	9.3 lb (4.2 kg) per gallon
VOC (max)	250 grams/liter
Non-volatile content	70% minimum
SETA Flash Point	105°F (40.6°C)
Sizes	5 gal/18.9 L or 55 gallon/208.2 L



MATRIX™ 102

SBS MEMBRANE ADHESIVE (2 OF 2)

Superior
Bonding
Strength
& Flexibility

Precautions (Continued)

Storage/Handling & FIRE WARNING:

Matrix™ 102 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.

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

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

Matrix™ 102 SBS Membrane Adhesive contains petroleum distillate.

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™ 102 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 Technical Services at 1-800-766-3411 or visit gaf.com.