

Features and Components

- Use:** For applying SBS cold applied membranes and insulation/cover board. Used as a direct substitute for hot asphalt.
- Type:** Two-part, solvent free, elastomeric, cold application adhesive.
- Color:** Black to Brown
- Features:** 100% solids with no volatile organic compounds (VOCs). Low odor and fast set time. Can be applied over wide temperature and humidity ranges. High strength with exceptional wind uplift performance. Ideal for those applications where hot asphalt is prohibited, not desirable or not practical.



Component
AD
Adhesive

Type
M
Membrane

I
Insulation

B
Cover Board

Multi-Ply
Single Ply

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	CA	HW	HA	CA	HW*	SA
Used to adhere Membranes in the selected Multi-Ply systems above								

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
Used only to adhere Insulation in all Single Ply systems							

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

* Compatible with all SBS modified membranes that do not incorporate a polyolefin burn-off film.

Energy and the Environment

Maximum VOC (ASTM D 3960)	<10 g/l
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Physical Properties

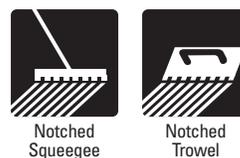
Property		ASTM Test Method	MBR Adhesive
Strength	Tensile Strength	D 412	250 psi (2.8 MPa)
	Deflection Temp	D 648	< -10°F (-23°C)
	Extension to Break	D 412	100%
	Hardness Shore @ 77°F (25°C)	D 2240	25
Longevity	Peel Resistance (T-Peel Test)	D 1876	8 pli (min.) 15 pli (min.) 25 pli 25 pli (min.)
	Sanded Surface ¹		
	Smooth Surface ²		
	Wood ³ Concrete ⁴		

1. Adhesive failure between sand and SBS roof membrane
2. Cohesive failure – SBS Membrane
3. Cohesive Failure – MBR Bonding Adhesive
4. Cohesive Failure – MBR Bonding Adhesive

Codes and Approvals



Installation/Application



- Apply between 50° and 100° F (10° and 38° C)
- Please refer to detailed installation instructions on next page

Packaging and Coverage

Container Sizes	Activator: 0.6 gal (2.3 l) jug Base: 4.4 gal (16.7 l) pail
Coverage Rate*	50 to 70 ft ² /gal (1.23 to 1.72 m ² /l)

* Coverage, open and dry time rates can vary dramatically depending on the particular substrate and environmental conditions. Coverage rates stated herein are approximate only. If FM Global® or UL® approval is required, consult specific RoofNavSM or the UL Certifications Directory for specific application rates.

Storage

Shelf Life	24 months from manufacture date
Storage Conditions	Clean, dry, indoor environment, unopened container
Temperature Range	60°F to 80°F (16°C to 27°C) - Protect from freezing

Exposure Window

The adhesive has a pot life that is dependent on the ambient temperature. The applicator will have to use the mixed material in approximately:

Temperature °F (°C)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)
Use Within (mins.)	55	50	45	40	35	30

Installation/Application Instructions

Apply between 50° and 100° F (10° and 38° C)

MBR Bonding Adhesive should not be installed over cut-back primer.

JM MBR Bonding Adhesive is prepared on site by adding specific premeasured amounts of JM MBR Bonding Adhesive Activator and mixing for a minimum of three minutes. The adhesive is prepared in the MBR Bonding Adhesive container, a 6 gal (22.7 l) pail, with the use of an 8" (203 mm) mud mixer mounted on a 1/2" (13 mm) electric drill motor. The container of MBR Bonding Adhesive Activator (0.60 gal [2.3 l]) is packaged to provide exactly the correct amount of material necessary to react with the contents of MBR Bonding Adhesive Base (4.4 gal [16.7 l]), resulting in 5 gal (18.9 l) of total mixed product. The activator is heavier and has a lower viscosity than the base material.

To produce a complete mix, the MBR Bonding Adhesive Activator must be poured **slowly** into the vortex caused by the rotating mixer. The activator must not be dumped into the pail in one motion.

The mixing of individual pails of adhesive should be timed so that one can of freshly mixed material is ready for the application crew. Mixed adhesive must not be stockpiled, since the material will cure to an unworkable viscosity before the application crew can use it.

The product can also be used as an insulation adhesive when applied in 3/4" to 1" (19 mm to 25 mm) strips 12" (305 mm) apart to approved insulation. Outside strips should be approximately 6" (102 mm) from the edge of the board. The coverage rate in this application is 130 to 150 ft²/gal (3.2 to 4.9 m²/l) depending on the substrate. Contact JM Technical Services for more information.

MBR Bonding Adhesive can be installed with a notched squeegee or trowel. Average coverage* per ply is 50 to 70 ft²/gal (1.23 to 1.72 m²/l).

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Clean-Up and Disposal

Tools and equipment can be cleaned with mineral spirits.

Precautions

Everyone handling adhesives should wear protective gloves and safety glasses. All of the adhesive must be mixed properly and used immediately. MBR Bonding Adhesive may cause eye, skin and respiratory irritation, and is harmful or fatal if swallowed.