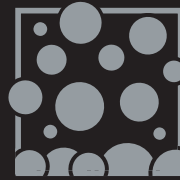




W A T E R



F I R E



H A I L



W I N D

Defy the Elements

Cold Applied SBS Systems
For Those Times When Hot Application Isn't Cool



JM
Johns Manville

A high-performance system that's safe, clean, efficient and friendly to the environment.



W A T E R

Let's face it, there are situations when the time-honored application of hot asphalt is not suitable for a particular project. There are job sites where the heat source necessary for hot application may pose a risk to building occupants, or it's inconvenient due to limited access. There are times when the odors associated with hot asphalt are undesirable.

In such situations – or any situation where cleaner, more efficient installation is desired – you can still have the tough, long-lasting advantages of SBS modified bitumen. One of the best ways to do that is with the advanced technology of Cold Applied SBS Systems from Johns Manville.

Cold applied SBS: Long-term performance under the harshest conditions.

With cold applied SBS, the waterproofing is built right in during manufacture of the modified bitumen sheets. The SBS modified bitumen acts as a stable, reinforced rubber. Its strong, three-dimensional network of polymers is impervious to natural extremes of heat and cold. Its powerful recovery properties easily accommodate expansion and contraction. Strength and puncture resistance are further enhanced with a built-in layer of fiber glass or polyester reinforcement – or a composite of both.

The JM Cold Applied SBS system incorporates a cold adhesive as a direct substitute for the Type III and IV asphalts used in hot application of modified bitumen roofing specifications. Together, the components provide a strong, durable, versatile roofing system that can be applied in a wide range of temperatures and climates.

Safe, clean and friendly to the environment.

By eliminating the need for heat, the cold application process removes safety concerns associated with heating equipment, propane torches or the hot asphalt itself. It also eliminates the fumes and odors associated with hot application methods, making installation more occupant friendly. With ready-to-use, recyclable 350-gallon adhesive totes, and self-contained spray rigs, the job site is less cluttered, too.

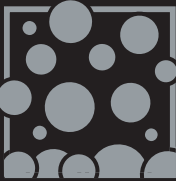
In addition, the MBR® Cold Application Adhesives used in the JM systems contain very low Volatile Organic Compounds (VOCs), reducing the potential impact on the environment.

Efficient, cost-effective installation.

The elimination of the heat source (kettle or propane torch) also creates installation efficiencies, especially in those limited-access, high-rise applications. Spray or squeegee application, made possible by the excellent consistency of the cold applied adhesives, speeds up the operation, as does the fast set-up time. These factors, along with the easy handling of the flexible SBS sheets, mean fewer manhours and reduced labor costs.



F I R E



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System Components

DynaBase® A tough first layer of SBS modified bitumen accommodates the continual expansion and contraction strains on all roofs. Fiber glass reinforcement provides excellent tensile strength and dimensional stability.

DynaKap® FR This sheet provides a heavy layer of protection for a durable roofing system. Tough granular surfacing, along with a fiber glass/polyester composite reinforcement enable the product to withstand the rigors of both weather and rooftop traffic.

MBR® Cold Application Adhesive Specially formulated for JM SBS systems, this adhesive is available in ready-to-use totes, drums or pails. The low VOC content provides minimal odor during application.

MBR® Flashing Cement A unique two-component adhesive for use with all SBS modified bitumen membrane products. Fast set-up time and no nails required; reduces labor costs. MBR Flashing Cement is a low VOC product.

More reasons to go with a cold applied SBS system.

Installation: Quicker, cleaner and cooler!

Adhesive: Pour a 2" to 4" (51 mm to 102 mm) wide bead of adhesive along the substrate, about 12" (305 mm) from the lower edge of the work area. Spread it with a ¼" (6 mm) (max.) saw-toothed, rubber squeegee to obtain a uniform bed of adhesive.

Base: Roll a relaxed base sheet into the adhesive firmly, uniformly and without voids. Broom the base sheet to ensure proper embedment. As subsequent sheets are applied, seams may be heat welded at the side laps and end laps.

Cap: Starting at the low edge of the roof, apply adhesive in the same manner as for the base sheets. Once a relaxed cap sheet has been placed into the bed of adhesive and aligned properly with the adjoining sheet, roll the seams with a 3" (76 mm) rounded edge roller and press a 1/8" to 3/8" (3 mm to 10 mm) bead of compound out of the lap.

As an alternative, the side and end laps may be heat welded.

For detailed installation instructions and more technical specifications, be sure to visit www.jmsbs.com.

Eligible for JM Roofing System Guarantees, too.

When a JM Cold Applied SBS roofing system, as specified above, has been installed by a JM Peak Advantage Contractor, JM can issue a Roofing System Guarantee.

Johns Manville offers up to a 20-year system guarantee on cold applied SBS roofing systems.

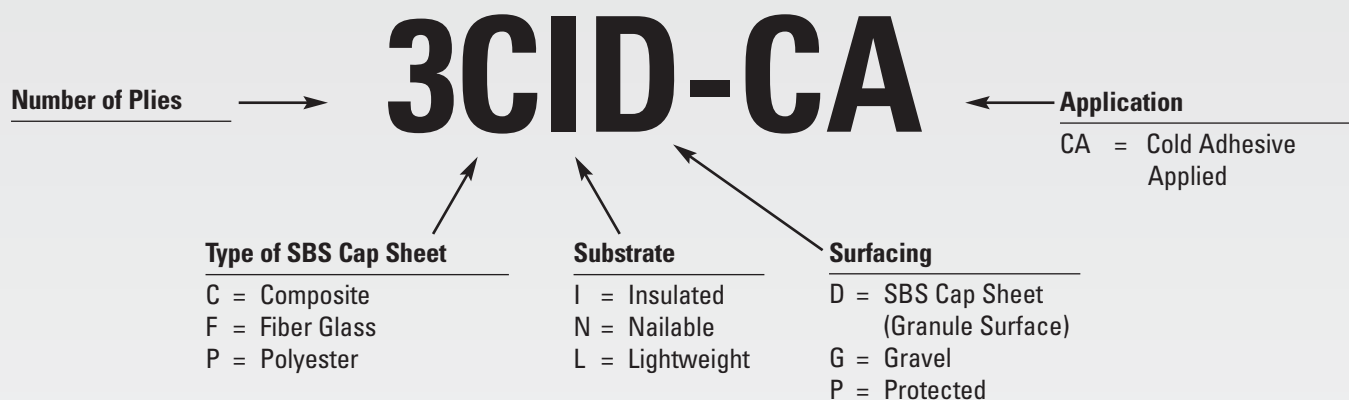
The JM Roofing System Guarantee promises that JM will pay for repairs to stop leaks resulting from natural deterioration of the membrane or poor workmanship in applying the guaranteed JM materials. For more information on JM Roofing System Guarantees, visit www.jmsbs.com.

JM Specifications

JM has numerous cold applied specifications. Two popular examples are:

• **3CID-CA:** Two layers of DynaBase® base sheet and one layer of DynaKap® FR cap sheet

• **2CID-CA:** One layer of DynaBase® and one layer of DynaKap® FR cap sheet



Typical physical properties* – DynaBase®
Other base sheets are available; visit www.jmsbs.com for more information.

Meets ASTM D 6163, Type I, Grade S

Thickness 90 mils (2.2 mm)

Tensile Strength @ 0°F (-18°C)

Machine Direction 90 lbs. force/in. width (15.8 kN/m)

Cross Machine Direction 70 lbs. force/in. width (12.3 kN/m)

Tensile-Tear

Machine Direction 100 lbs./in. (17.5 kN/m)

Cross Machine Direction 90 lbs./in. (15.8 kN/m)

Low Temperature Flexibility -10°F (-23°C)

**Material tested in accordance with ASTM D 5147.*

Typical physical properties* – DynaKap® FR Cap Sheet
Other base sheets are available; visit www.jmsbs.com for more information.

Meets ASTM D 6162, Type II, Grade G

Thickness 160 mils (4 mm)

Tensile Strength @ 0°F (-18°C)

Machine Direction 150 lbs. force/in. width (26.3 kN/m)

Cross Machine Direction 105 lbs. force/in. width (18.4 kN/m)

Tensile-Tear

Machine Direction 150 lbs./in. (26.3 kN/m)

Cross Machine Direction 125 lbs./in. (21.9 kN/m)

Low Temperature Flexibility -10°F (-23°C)

**Material tested in accordance with ASTM D 5147.*



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