

Features and Components

Use: For use with JM bituminous membrane products. It is part of the JM PermaFlash® Bituminous Flashing System for penetrations and other details. Ideal for areas where hot asphalt is prohibited, not desirable or not practical.

Type: Two-part, urethane-based, elastomeric, liquid-applied flashing material.

Color: Black

Features: Cures to a durable, elastomeric film and forms exceptional bonds between the modified bitumen and underlying substrate. Resists virtually all factors affecting base flashing performance while providing superior flexibility and durability. UV stable, high solids, low odor, VOC compliant.



Component

CE
Cement

Type

FL
Flashing
Multi-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	HW	HA	CA	HW	SA	MF	
<i>Used to adhere flashings in all multi-ply systems</i>									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
<i>Do not use in single ply systems</i>										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

* When used as part of the PermaFlash Flashing System.

Energy and the Environment

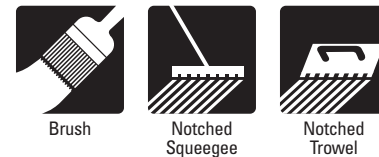
Maximum VOC	<121 g/l (base) 0 g/l (activator) <98 g/l (activated base)
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Physical Properties

Property		ASTM Test Method	MBR Flashing Cement
Strength	Tensile Strength	D 412	600 psi (4.1 MPa)
	Elongation	D 412	> 300%
Installation	Working Time ² @ 77°F (25°C)	–	30 min
	Rainproof After ² @ 77°F (25°C)	–	4 hrs
Longevity	Hardness @ 77°F (25°C)	D 2240	65 Shore A
	Crack Bridging (after heat aging)	–	1/8" (3 mm)
	Softening Point, Ring and Ball	D 36	275°F (135°C)
	Elastomeric Waterproofing	C 836 / C 957	Exceeds All Criteria
	Abrasion Resistance	D 4060 ³	1.2 mg loss
	Permeability to Water Vapor	E 96 ¹	0.03 perms

1. Method E, 100°F (38°C), 100 mil (3 mm) sheet 2. Working and cure times will vary depending on ambient, surface and material temperatures. 3. 1,000 gr./1,000 rev., CS-17 wheel

Installation/Application



- Apply between 40° and 100° F (4° and 38° C)
- Service temperature is -60° to 220° F (-51° to 104° C)
- Please refer to detailed installation instructions on next page

Packaging and Coverage

Container Sizes	Base:	3.9 gal (16.5 l) pail
	Activator:	44.1 oz (1.3 l) jug
	Base & Activator:	28.7 oz (848.8 ml) 6 cartridges/box
Coverage Rate*	20-25 ft ² /gal (0.49 - 0.61 m ² /l)	

* Nominal 1/16" (2 mm) thick layer of adhesive. 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	Base: 24 months from manufacture date Activator: 2 yrs; Cartridges: 1 yr
Storage Conditions	Clean, dry, indoor environment in an unopened container
Temperature Range	60°F – 90°F (16°C – 32°C) - Protect from freezing



MBR[®] Flashing Cement Base and Activator

Surface Preparation

When flashing to sheet metal, PermaFlash Primer is required and should be applied as prescribed on the primer label.

MBR Flashing Cement bonds very well to clean, dry, well-cured concrete. However, concrete cured with mineral oils, resins or waxes requires the use of JM Concrete Primer. In addition, clean and coat concrete soiled with oil, grease or release agents with JM Concrete Primer, following the instructions on the pail.

Mixing Instructions

These instructions apply to MBR Flashing Cement in 3.9 gal (14.8 l) pails.

(1) pail MBR Flashing Cement Base Contents: 3.9 gal (14.8 l)

(1) jug MBR Flashing Cement Activator Contents: 44.1 oz (1.3 l)

All two-part products are color-coded products.

Installation/Application Instructions

Apply between 40° and 100° F (4° and 38° C)

On the substrate to be flashed, use a trowel to spread the mixed material to obtain a full coverage coating, without voids, to a minimum thickness of 1/8" (3.2 mm). As the coating process proceeds, lay the flashing membrane into the bed of cement. Check all flashing details to determine if there is a nailing requirement.

Seal side laps in the same manner, at a minimum of 4" (10.2 cm).

For penetrations, use MBR Flashing Cement in conjunction with PermaFlash[®] Primer and PermaFlash[®] Scrim.

Clean-Up and Disposal

Clean-Up Information

Use mineral spirits to clean tools immediately after completion of work. Periodically place tools in a pail of mineral spirits to prevent buildup of cement. Wear rubber gloves during all applications and clean up procedures. Follow manufacturer's warnings and cautions about using solvents.

Disposal Information

Please dispose in accordance with applicable regulations.

Empty Containers

MBR Flashing Cement Base containers, when empty, contain combustible and harmful vapors and residue. Do not reuse the container or remove the labels. Follow all of the label warnings even when the container is empty. Dispose of containers in accordance with applicable regulations.

Precautions

MBR Flashing Cement is prepared on the jobsite and requires extra care during preparation. Roofing contractors must advise their crews to precisely follow all safety, storage, handling, preparation and application instructions. JM will not accept responsibility for any use of this product that does not comply with the instructions printed on the containers.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.