



MBR® Flashing Cement

Description

MBR Flashing Cement is a unique, two-component, elastomeric, liquid-applied flashing material, consisting of an asphalt/urethane base material and an activator. It is formulated for use with the Johns Manville (JM) BUR and SBS membrane products. It is part of the JM PermaFlash® Bituminous Flashing System for penetrations and other details.

MBR Flashing Cement is available in 4.35 gal (16.5 l) pails, or in 28.7 oz (848.8 ml) cartridges. MBR Flashing Cement cartridges do not require premixing.

Use

When used as a direct substitute for hot asphalt, MBR Flashing Cement is ideal for those flashing applications where hot asphalt is prohibited, not desirable or not practical.

In pails, mix the adhesive on site, apply by trowel to the substrate and lay the flashing material into the bed of adhesive. In cartridges, apply the adhesive directly; no premixing is necessary.

The adhesive will set within 20 to 40 minutes, holding the modified bitumen in place, and will cure in two to four hours into a tough, durable and highly weatherable rubber film. Treat all modified bitumen sheet laps with the adhesive.



Advantages

- 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.
- Use as a direct substitute for hot asphalt.
- Ideal for areas where hot asphalt is prohibited, not desirable or not practical.
- UV stable
- High solids, low odor, VOC compliant

Typical Physical Properties

| Property | Test Method | Value |
|--------------------------------|--|----------------------|
| Tensile Strength | ASTM D 412 | 600 psi (4.1 MPa) |
| Elongation | ASTM D 412 | > 300% |
| Permeability to | | |
| Water Vapor | ASTM E 96 Method E, 100°F (38°C), 100 mil (3 mm) sheet | 0.03 perms |
| Working Time* | @ 75°F (25°C) | 30 min |
| Rainproof After* | @ 75°F (25°C) | 4 h |
| Hardness | ASTM D 2240 @ 77°F (25°C) | 65 Shore A |
| Crack Bridging | After Heat Aging | 1/8" (3 mm) |
| Softening Point, Ring and Ball | ASTM D 36 | 275°F (135°C) |
| Elastomeric | | |
| Waterproofing | ASTM C 836, ASTM C 957 | Exceeds All Criteria |
| Abrasion Resistance | ASTM D 4060, 1,000 gr./1,000 rev. CS-17 wheel | 1.2 mg loss |

* Working and cure times will vary depending on ambient, surface and material temperatures.

Caution

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.

Equipment

- 1/2" (13 mm) drill: 450 rpm to 900 rpm
- Brushes or trowels.
- Solvent: paint thinner or mineral spirits.
- All tools normally used in the application of BUR flashing materials.
- For cartridges: static mixer tip and cartridge applicator.

Refer to the Material Safety Data Sheet and product label prior to using this product.



MBR® Flashing Cement (cont'd)

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 4.35 gal (16.5 l) pails.

(1) pail MBR Flashing Cement Base
Contents: 4.35 gal (16.5 l)

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

All two-part products are color-coded products.

Installation Instructions

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 $\frac{1}{16}$ " (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.

Coverage*

Approximately 20 to 25 ft²/gal (0.49 to 0.61 m²/l) with a nominal $\frac{1}{16}$ " (2 mm) thick layer of adhesive.

* Coverage rates depend upon weather conditions and substrate. Refer to specific code agency Web sites for exact construction information.

Storage and Shelf Life

Store the activator indoors in an area between 60°F (16°C) and 90°F (32°C). MBR Flashing Cement Base in 5 gal (18.9 l) pails and 1 gal (3.8 l) cans have an indefinite shelf life as long as the containers are sealed. MBR Flashing Cement Activator has a shelf life of two years. MBR Flashing Cement Cartridges (28.7 oz [850 ml] each) have a shelf life of one year.

Clean Up

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: MBR Flashing Cement, i.e., MBR Flashing Cement Base that has been fully reacted with MBR Flashing Cement Activator, can usually be disposed of at a licensed landfill.

MBR Flashing Cement Base is considered a hazardous waste. Disposal must be in accordance with local, state and federal regulations. If possible, fully react any remaining material with MBR Flashing Cement Activator; this reacted material can usually be disposed of at a licensed landfill.

MBR Flashing Cement Activator is also considered a hazardous waste. Disposal must be in accordance with local, state and federal regulations. If the material reacts with MBR Flashing Cement Base, disposal can be as recommended for MBR Flashing Cement. If this is not the case, the material can be neutralized by mixing with a 90 percent water, 8 percent ammonia and 2 percent detergent solution. Leave containers open for at least 48 hours to allow any carbon dioxide gas evolved to escape. The resulting solidified waste can then usually be disposed of at a licensed landfill.

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. If the residue is of fully reacted material, the container can usually be disposed of at a licensed landfill.

Neutralize MBR Flashing Cement Activator containers with the solution described in the disposal information above. Leave decontaminated containers open for at least 48 hours to allow any carbon dioxide gas evolved to escape. Containers can then be disposed of at a licensed landfill.

Refer to the Material Safety Data Sheet and product label prior to using this product.