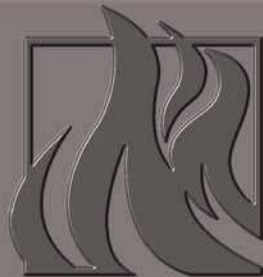




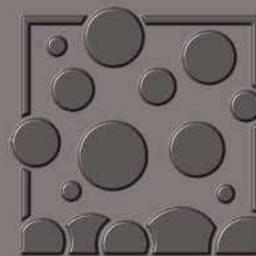
Defy the Elements



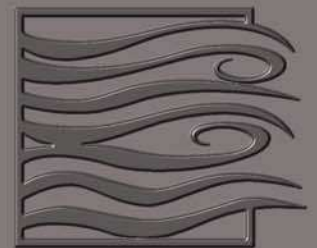
W A T E R



F I R E



H A I L



W I N D

PermaFlash™

Bituminous Flashing System

The Complement to Any Bituminous Roofing System.

In today's bituminous roofing systems, particular attention must be paid to the growing number of roof details and penetrations. PermaFlash, Johns Manville's flexible bituminous flashing system, is specially designed to work with your roofing system to ensure the weatherproofing of a wide range of details.

PermaFlash comes with all the testing, consistent product quality, technical assistance and high performance you expect from JM. When used with a JM roofing system, it provides a functionally integrated product with single-source convenience.

Flexibility to Fit Any Penetration.

Unusual penetration shapes or roof details are no problem for PermaFlash. The polyester scrim is soft and pliable to accommodate any shape and provide the reinforcing substrate for the MBR® Flashing Cement. It can even be used on drains and vertical surfaces. The system's flexibility allows it to accommodate general roof expansion and contraction to retain its weatherability.

Solid Bonding, Solid Protection.

Where hot asphalt is prohibited, not desirable or not practical, but high weatherability is demanded – PermaFlash is your best choice. Its cold-applied, two-part system consists of a polyester stitch-bonded reinforcing scrim and a two-component adhesive for superior bonding and durability. PermaFlash is specifically formulated for use with all bituminous systems, including hybrid systems. It is excellent for use in projects such as:

- New and re-roof
- Metal roofing
- Paver systems
- Historic preservation and or restoration

Easily Applied in Any Location.

Installers using PermaFlash can easily access any location and apply the materials with hand tools.

Physical Properties

Property	Test Method	Value
Color	Visual	Black
Nominal Thickness with Scrim	Micrometer	80 mil (2.0 mm) minimum
Tensile Strength	ASTM D412	1,100 psi (7.6 MPa)
Elongation	ASTM D412	> 40%
Permeability to Water Vapor	ASTM E 96 Method E, 100°F (38°C), 100 mil (2.5 mm) sheet	.03 perms
Hardness	ASTM D 2240 @ 77°F (25°C)	65 shore A
Working Time*	@ 75°F (24°C)	30 min
Rainproof After*	@ 75°F (24°C)	4 h
Suitable for Pedestrian Traffic*	@ 75°F (24°C)	12 h
Suitable for Vehicular Traffic*	@ 75°F (24°C)	48 h
Overburden May Be Applied after*	@ 75°F (24°C)	24 h
Crack Bridging	After heat aging	1/8" (3 mm)
Softening Point, Ring & Ball	ASTM D 36	275°F (135°C)
Elastomeric Waterproofing	ASTM C 836, ASTM C 957	Exceeds all criteria
Abrasion Resistance	ASTM D 4060, 1000gr./1000 rev. CS-17 wheel	1.2 mg loss
VOC		0.74 lb/gal (88 g/l)

Because the primer dries instantly, the process moves quickly. Mixing the MBR Flashing Cement can be done in the original containers. It stays workable under a wide range of temperatures but cures to form a seamless barrier with exceptional strength and flexibility.

For those who prefer a method other than mixing, MBR Flashing Cement Cartridges are available. These cartridges contain the two-component adhesive and require the use of an MBR Flashing Cement applicator and static mixer. This convenient option eliminates the task of pre-mixing cement and assures an equal distribution of two-part product.



Compare With Other Products to See the JM Advantage. We are confident of all the advantages of the PermaFlash Bituminous Flashing System. Compare it to any competitive product for:

- Low permeability
- Wide application temperature range
- Low cost per penetration
- Minimal odor release
- Great tensile strength
- Enhanced workability
- Great crack bridging capabilities

For Best Results, Contact a JM Peak Advantage® Contractor to Ensure High Quality Installation and Quality for a JM Guarantee.

By using a JM approved Peak Advantage contractor for installation, you can be certain that the PermaFlash Bituminous Flashing System has been properly specified and applied according to JM technical standards and may also be included in a JM 10-, 15-, or 20-year NDG guarantee. JM's guarantees are backed by nearly 150 years in the roofing industry and offer peace of mind accompanied by expert technical support.



For complete product specifications and comprehensive installation instructions go to www.jm.com.

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

Flashing a Parapet Wall



1. Apply base coat



2. Embed PermaFlash Scream



3. Apply top coat



4. Coat entire scrim area



5. Broadcast granules (optional)



6. Finished wall flashing

Flashing an I-Beam



1. Prime



2. Apply base coat



3. Embed PermaFlash Scream



4. Apply top coat



5. Remove masking tape



6. Finished penetration

PRODUCT WARRANTIES:

Johns Manville designs roofing products that work together to provide a one source comprehensive roofing system solution. Total roofing system guarantees are available under the JM Peak Advantage Guarantee program. To learn more about our standard guarantee terms and conditions, visit our website at www.jm.com or talk to your local JM sales representative.

JM Peak Advantage Guarantees are available only on qualified JM roofing systems containing JM roofing products. JM standard product terms and conditions will apply to include a one-year limited product warranty. Limited product warranty information is available at www.jm.com/About Us/US Terms and Conditions.

For additional technical or guarantee information:

Roofing Services

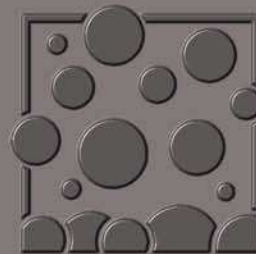
P.O. Box 625001
Littleton, CO 80162-5001
(800) 922-5922
FAX: (303) 978-2808



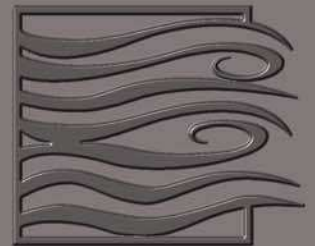
W A T E R



F I R E



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