

Features and Components

The PermaFlash System consists of PermaFlash Primer, MBR Flashing Cement, and PermaFlash Scrim. It is an integrated flashing system specifically formulated for use in bituminous systems.

PermaFlash Primer (Low VOC): One-Part Solvent-Based Primer that improves adhesion of MBR® Flashing Cement to nonporous substrates.

MBR Flashing Cement Base and Activator¹: Two-part, liquid-applied flashing material that cures to a durable, elastomeric film.

PermaFlash Scrim: Flexible stitchbonded polyester scrim.

Colors: Primer - Clear; Liquid Base - Black; Activator - Brown; Scrim - White

1. Please see the MBR Flashing Cement Base and Activator data sheet for more information.



Component
L
Liquid

Type
FL
Flashing
Liquid Applied
Multi-Ply

Features: Can be used to flash most penetrations, drains, and vertical surfaces.

Resists virtually all factors affecting flashing performance while providing superior flexibility and durability.

High solids, low odor, VOC compliant, and UV stable.

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	MF	
Compatible with the selected Multi-Ply systems above										

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with the selected Single Ply systems above										

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

*As part of the PermaFlash integrated flashing system

Energy and the Environment

Maximum VOC	0 g/L (primer - low VOC) <121 g/l (base) 0 g/l (activator) <98 g/l (activated base)
-------------	--

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
	Service Temperature	NA -60° to 220°F (-51° to 104°C)

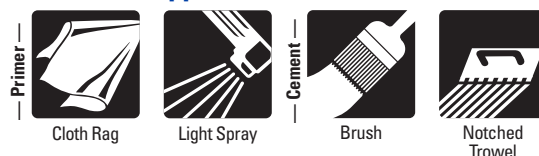
1. Method E, 100°F (38°C), 100 mil (3 mm) sheet 2. Working and cure times will vary depending on ambient, surface and material temperatures. 3. 1,000 gr/1,000 rev., CS-17 wheel

Peak Advantage® Guarantee Information

Systems	Guarantee Term
Any bituminous roofing system.	Up to 30 years*

*Can be included in Peak Advantage Guarantee for new systems.

Installation/Application



Packaging and Coverage

Primer Container Size	Box of six 32 oz (946 ml) bottles
Primer Coverage Rate ¹	150 ft ² (13.94 m ²)
Cement 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) cartridges
Cement Coverage Rate ²	20-25 ft ² /gal (0.49 - 0.61 m ² /l)
Scrim Roll Size	12" (305 mm) w x 300' (91.4 m)
Scrim Coverage	300 ft ² (27.87 m ²) or 20 ft ² (1.86 m ²) - within kit
PermaFlash Kit	4 - 28.7 oz (848.8 ml) cartridges
	1 roll - 12" (305 mm) w x 20' (6.09 m) scrim
	1 - 32 oz (946 ml) bottle of primer

1. Do not apply material at higher coverages per square foot. Applying too much PermaFlash Primer will result in less adhesion than if the primer had not been used. When applied at the proper coverage, evaporation should occur within a few seconds.
2. 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	Primer & Scrim: 24 months from manufacture date Base: Indefinite in sealed container; Activator: 24 months; Cartridges: 12 months
Storage Conditions	Clean, dry, indoor environment, unopened container
Temperature Range (Protect from freezing)	Primer: 20°F - 90°F (-7°C - 32°C) Cement & Scrim: 60°F - 90°F (16°C - 32°C)

Application Instructions

See PermaFlash Bituminous Flashing System Detail Instructions, PermaFlash Bituminous Flashing System Penetration Flashing, and PermaFlash Flashing Details for installation instructions.

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

For disposal instructions, please refer to the safety data sheet.

Precautions

Handling Refer to product Safety Data Sheet (SDS) for additional information pertaining to this product and prior to use or handling. 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.