

**MARKETING BULLETIN — Roofing Systems**

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## **SeamFree™ Liquid Membrane System Frequently Asked Questions**

### **Product Description**

#### **1. What is the SeamFree Liquid Membrane System?**

The SeamFree Liquid Membrane System is a liquid-applied system that provides an elastomeric, monolithic, waterproofing membrane for flat roofs.

#### **2. What are the SeamFree Liquid Membrane System components?**

The SeamFree Liquid Membrane System consists of liquid base, liquid activator and the scrim. The base and activator mixed together form the “Liquid Membrane”. The scrim embedded between two layers of the liquid membrane make up the “system”.

#### **3. What is the packaging?**

- SeamFree Liquid Membrane Base comes in 4.4 gal pails and can be ordered individually.
- SeamFree Liquid Membrane Activator comes in 44.1 oz bottles, six to a box and can be ordered individually or a box of six.
- Pallets consist of 24 pails of base with 24 bottles of Activator (four boxes of six) on the top of the pallet.

#### **4. In what states/territories is the SeamFree Liquid Membrane System available?**

Effective December 30, 2009, the SeamFree Liquid Membrane System is available only in the New York City area. The plan is to roll-out to other markets beginning in Spring 2010 and a separate announcement will be made at that time.

### **Uses, Applications & Advantages**

#### **5. What are the different applications for the SeamFree Liquid Membrane System?**

The SeamFree Liquid Membrane System is excellent for flat or low-sloped roofs, new or re-roofs where waterproofing is needed. It is ideal for areas where hot asphalt or heat welding techniques may not be allowed on roofs. It is also good for smaller areas and areas with numerous penetrations. Some of the applications include:

1. Plaza decks (under pavers)
2. Garden roofs
3. Terraces
4. Balconies
5. Stand-alone roofs

#### **6. Can SeamFree Liquid Membrane System be used for ponding water?**

Yes, it is excellent for situations with constant water emersion.

### **Storage & Shelf Life**

#### **7. How should the SeamFree Liquid Membrane (base and activator) be stored?**

Store the SeamFree Liquid Membrane (base and activator) indoors between 60°F (16°C) and 90°F (32°C) for optimal shelf life.

#### **8. What is the shelf life of the SeamFree Liquid Membrane?**

Both the base and activator have a two year shelf life. Activator shelf life will be reduced if stored in temperatures below 60°F (16°C) for prolonged periods.

**9. Is the product date stamped so I know when the shelf life is expired?**

Yes. The base pail is date stamped and the box containing six bottles is date stamped.

**10. Can the base and activator be allowed to freeze?**

Do not allow the product to freeze. If the base freezes, it will harden and need to thaw before mixing. If the activator freezes, the chemical compound can breakdown and no longer be useable. You can attempt to save the activator by gradually warming the bottle in water. However, if more than a ¼ inch of crystallized sediment form on the bottom of the bottle, the product is not useable.

### Surface Preparation

**11. Can SeamFree Liquid Membrane System be applied over wet or dirty concrete?**

No. The surface must be clean and dry, free from any dirt, oils, grease or form release agents on the surface. No moisture (including frost) can be on the surface.

**12. Can I use primer on the concrete?**

JM recommends you do not use primer. The SeamFree Liquid Membrane System should be applied directly to clean and dry structural concrete.

**13. Can SeamFree Liquid Membrane System be applied to new concrete?**

New concrete should be allowed to cure for 28 days before applying the SeamFree Liquid Membrane System. All protrusions, sharp edges, loose concrete and must be removed. No moisture, dirt or oils should present.

**14. Can the SeamFree Liquid Membrane System be used on lightweight concrete?**

Lightweight concrete is not currently an approved substrate. Only structural concrete is approved.

### Coverage

**15. What is the coverage of the SeamFree Liquid Membrane System?**

Each pail when mixed is 4.75 mixed gallons (17.98 l). Assuming some waste and 90 mil (2.29 mm) total thickness, each pail should cover approximately 75 ft<sup>2</sup> (6.97 m<sup>2</sup>).

### Installation

**16. Can I apply this in cold weather?**

Yes, as long as the surface is clean and dry. No moisture including frost should be on the surface. The base and activator need to be kept above 60°F (16°C) when mixed. The product can be heated to facilitate applications in cold temperatures. Do not heat above 100°F (38°C).

**17. Can I use a notched squeegee, roller or sprayer to apply the liquid membrane?**

A flat squeegee is recommended. However, you can use a notched squeegee, roller or spray to apply as long as you apply the proper mil thickness. Spray application must be done with an air-assisted pump, properly configured for the SeamFree Liquid Membrane. Spray application should only be performed where overspray is not a concern.

**18. When do I lay-in the scrim?**

Immediately following the installation of the 30 mil base coat.

**19. How long must you wait before applying the final (second) coat?**

Approximately three to four hours. The base coat with scrim must be tack-free before walking on it and applying the final coat.

**20. How long should you wait to allow foot traffic on the finished membrane product?**

Foot traffic can occur after 8-12 hours depending on the temperature. The higher the temperature, the quicker the liquid membrane will cure.

**21. How do I tie-in the SeamFree Liquid Membrane System if I don't complete the job on the same day?**

If the SeamFree Liquid Membrane System is not installed over the entire roof area in one day, the joint line left at the work stopping point must be clean and straight. When work resumes, roughen the joint area (minimum 6" [15.24 cm] wide the length of the joint) with a surface grinder or other mechanical means. Clean joint areas with PermaFlash Primer to remove any loose debris and allow to flash off. Within one hour of the PermaFlash Primer flashing off, continue the installation of the SeamFree Liquid Membrane System starting 6" (15.24 cm) in from the joint edge (See detail SF-12).

**Flashing** – Refer to the SeamFree System Flashing Details (SF-1 through SF-8)

**22. Is this system compatible with the PermaFlash Bituminous Flashing System?**

Yes. The SeamFree Liquid Membrane System is designed to work with PermaFlash to form a monolithic, elastomeric membrane.

**23. Should the flashing be done prior to installing the SeamFree Liquid Membrane System?**

JM recommends installing the flashings first by using the PermaFlash Bituminous Flashing System details (PMF).

**24. How do you tie-in the PermaFlash with the SeamFree Liquid Membrane System?**

If the PermaFlash System and SeamFree Liquid Membrane System are done on the same day, the SeamFree Liquid Membrane System can be applied directly to the PermaFlash System. If the PermaFlash is allowed to cure overnight, the preparation process is the same as the joint detail (See SF-12 Flashing Detail).

**25. What is the difference between the SeamFree Liquid Membrane System and the MBR Flashing Cement used in the PermaFlash system?**

The SeamFree Liquid Membrane is the same chemical composition as MBR Flashing Cement, but is a lower viscosity and therefore "self-leveling". Both systems are designed to work together to provide an elastomeric, monolithic waterproofing membrane. The MSDS for each is identical.

**Appearance & Surfacing**

**26. What does the SeamFree Liquid Membrane System look like once it is applied?**

It dries to a gloss black, elastomeric finish similar to the PermaFlash<sup>®</sup> Bituminous Flashing System.

**27. How can the SeamFree Liquid Membrane System be covered and can it be left uncovered?**

It can be topped with pavers (i.e. plaza decks), gravel, granules, TopGard<sup>®</sup> 4000 and TopGard<sup>®</sup> 5000 or a cap sheet. The system is UV stable and can therefore be left uncovered as well.

**Codes, Approvals & Guarantee**

**28. What substrates are approved for the SeamFree Liquid Membrane System?**

The SeamFree Liquid Membrane System is currently approved for concrete decks. JM is testing the system on other substrates and will communicate these when they are approved.

**29. What code approvals does the SeamFree Liquid Membrane System have?**

UL Class A Fire Rating when coated with TopGard 4000 or TopGard 5000. JM is currently testing for UL Class Fire Rating when surfaced with paving stones, garden roof, cap sheet, granules or left uncovered.

**30. Does the SeamFree Liquid Membrane System qualify for a guarantee?**

Yes. The SeamFree Liquid Membrane System is eligible for up to a 20-year JM Peak Advantage Guarantee. Contact Guarantee Services for information and qualification requirements.

**31. Is the SeamFree Liquid Membrane System part of the Johns Manville Submittal Wizard?**

Not currently.

**Safety, Personal Protection, Clean-up & Disposal**

**32. Refer to SeamFree Liquid Membrane MSDS and SeamFree Installations Instructions**

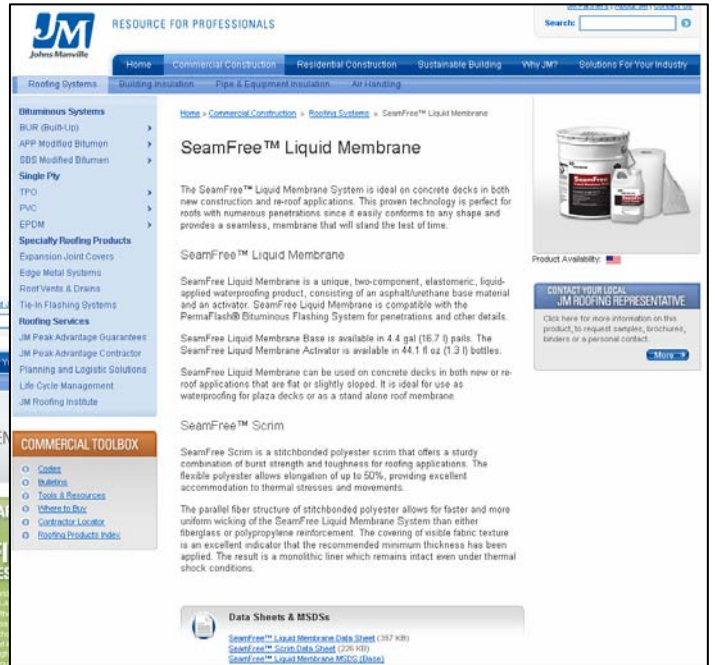
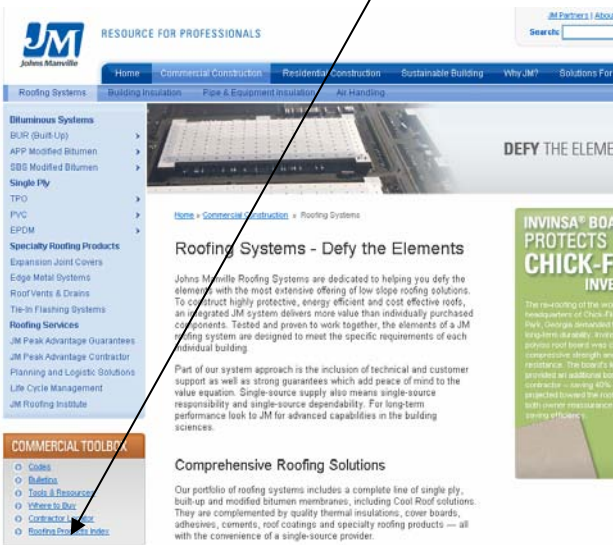
**Ordering Information**

**33. Refer to SeamFree Liquid Membrane MSDS and SeamFree Installations Instructions**

**Web**

**34. Where do I find the SeamFree Liquid Membrane System on the Web?**

The SeamFree Liquid Membrane System can be found in the Cements & Coatings section under **Roofing Products by Type**. Go to [www.jm.com/roofing](http://www.jm.com/roofing).



- Bituminous Roofing Systems**
    - BUR (Built-Up) Roofing
    - APP Modified Bitumen
    - SBS Modified Bitumen
  - Single Ply Roofing Systems**
    - TPO Roofing
    - PVC Roofing
    - EPDM Roofing
- Superior Services**

Products #4	Data Sheet	MSDS (White)
JM TPO Membrane Adhesive (Water Based)	Data Sheet	MSDS
JM TPO Membrane Cleaner	Data Sheet	MSDS
JM TPO Membrane Primer	Data Sheet	MSDS
JM TPO Pourable Sealer A & B	Data Sheet	MSDS (Part A) MSDS (Part B)
JM Two-Part Urethane Insulation Adhesive	Data Sheet	MSDS (Part 1) MSDS (Part 2)
MBR® Bonding Adhesive	Data Sheet	MSDS (Activator) MSDS MSDS (Activator - Français) MSDS (Activator - Español)
MBR® Cold Application Adhesive	Data Sheet	MSDS MSDS (Español)
MBR® Flashing Cement	Data Sheet	MSDS (Activator) MSDS (Cartridges) MSDS (Base) MSDS (Français) MSDS (Español)
MBR® Utility Cement	Data Sheet	MSDS MSDS (Español)
PermaFlash® Bituminous Flashing System	Data Sheet	MSDS (Primer) MSDS (Primer - Français) MSDS (Scrim) MSDS (Kli) MSDS (Cement) MSDS (Cement - French) MSDS (Cement - Spanish)
SeamFree™ Liquid Membrane	Data Sheet Data Sheet (Scrim)	MSDS (Base) MSDS (Scrim) MSDS (Activator)

The **SeamFree Liquid Membrane System** is located just below PermaFlash Bituminous Flashing System