# WeatherBond VapAir Seal<sup>™</sup> Flashing Foam



# **Overview**

VapAir Seal Flashing Foam is a low-pressure foam system that utilizes a nonflammable blowing agent. VapAir Seal Flashing Foam has been specifically formulated for flame retardancy and conforms to the requirements of ASTM E84 as a "Class 2(B)" system (flame spread of 75 or less, smoke development of 450 or less). The foam is used to seal penetrations and helps to lower heating and cooling costs by reducing air leakage.

Spray foam onto any clean, dry surface in any direction to insulate, fill, and seal various sized voids. It is specifically designed to spray onto flat or irregular surfaces and to fill large cavities. To complete the flashing around penetrations, VapAir Seal Flashing Foam is applied below the insulation level.

# **Features and Benefits**

- VapAir Seal Flashing Foam fully expands and dries tack-free within 30-60 seconds and is cuttable in 2-5 minutes.
- Adheres to most building materials with the exception of surfaces such as silicone, oils, greases, mold release agents, and similar materials.
- Effective for all roof penetrations.
- Will create a seamless, continuous seal to insulate and protect against vapor and air infiltration.
- Cured foam is resistant to heat and cold, -200°F to +240°F, and to aging, but not to UV rays unless painted, covered or coated.

# **Coverage Rate**

Two-component polyurethane foam will expand immediately after application. One set of tanks will yield 2,400 linear feet of foam at 1" x 1" bead dimensions. The foam will cure to a semi rigid closed cell foam.

# Installation

#### Setup

Substrate must be clean, dry, firm, and free of loose particles, dust, grease, and mold release agents. Protect surfaces not to be foamed and shake kits well before using.

- 1. Spray gloves, long sleeves, and protective glasses should be worn during setup and dispensing.
- 2. For best results, use when material is between 75°-85°F. Clean grease, oil, dirt, and water off surface to be foamed. Shake kits for 10-15 seconds before use.
- 3. Attach the static cone or fan nozzle to the end of the dispensing unit as the A-component and the B-component meet and mix in the disposable nozzle.
- 4. Once the trigger is released, it MUST BE REACTIVATED WITHIN 30 SECONDS or a new nozzle must be installed. Failure to do this could result in chemical leakage, spills, or splashes which can ruin the dispensing unit and/or hoses. It is recommended to apply the foam around the penetration after all membrane has been installed for the day. This will minimize replacing nozzles.
- 5. When applying the foam around penetrations, ensure you apply the liquid foam directly to the penetration to avoid material from entering the building space. Gaps need to be prefilled with fiberglass insulation when they are 1½" or greater.
- 6. If a complete seal is not achieved with the first application, apply an additional layer of foam to create a complete seal. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities. Cured foam can only be removed mechanically.
- 7. Prior to installing insulation, cut Flashing Foam to be even with the deck.

#### Storage

- Store in a dry area. Do not expose the kit or tanks to open flame or temperatures above 120°F (49°C). Excessive heat can cause premature aging of components resulting in a shorter shelf life.
- 2. VapAir Seal Flashing Foam is reusable by following product instructions.
- 3. Shelf life is twelve (12) months from date of manufacture.

REVIEW CURRENT WEATHERBOND INSTALLATION INSTRUCTIONS FOR SPECIFIC INSTALLATION REQUIREMENTS.



**Single-Ply Simplified** 

# **Precautions**

- Use only in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses or goggles with side shields, nitrile gloves, and clothing that protects against dermal exposure.
- The urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat about 240°F (116°C).
- For best results, foam chemical temperature must be between 75°F-85°F (24°C-29°C). Warm kits for a minimum of 1 day at room temperature.
- Prolonged inhalation exposure may cause respiratory irritation/ sensitization and/or reduce pulmonary function in susceptible individuals. Onset may be delayed and pre-existing respiratory conditions may be aggravated.
- 5. If liquid chemical comes in contact with skin, first wipe thoroughly with a dry cloth, then rinse affected area with water. Wash with soap and water afterwards, and apply hand lotion if desired. If liquid comes in contact with eyes, immediately flush with a large volume of clean water for at least 15 minutes and seek medical attention at once.

# **Typical Properties and Characteristics**

Property	Standard	Typical
Density Free Rise	ASTM D1622	1.75 lbs/ft³ (28 kg/m³)
K-factor- Initial Aged 90 days 140°F (60°C) Aged 90 days 140°F (60°C)	ASTM C518	0.139 BTU•inch/ft²•h•°F 0.166 BTU•inch/ft²•h•°F 0.083 BTU•inch/ft²•h•°F
R-Value- Initial Aged 90 days 140°F (60°C) Aged 90 days 140°F (60°C)	ASTM C518	7.2 at 1 inch thickness 6.0 at 1 inch thickness 12.0 at 2 inch thickness
Air Barrier Properties Tested at 1 inch thickness @1.57 psf (75Pa)	ASTM E283	0.003 cfm/ft <sup>2</sup> (0.02 L/s/m <sup>2</sup> )
Air Permeance	ASTM E2183	0.02 L/s/m <sup>2</sup>
Compressive Strength	ASTM D1621	27 lbf/in² (186 kPa) Parallel 18 lbf/in² (124 kPa) Perpendicular
Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free/Expansion Time	Tack-Free/ Expansion Time	30-60 seconds
Closed-Cell Content	ASTM D2856	>90%
Cuttable		2-5 minutes
Fungi Resistance	ASTM G21	No Growth
Perm Rating- Method A 1" Thick (2.54 cm) 2.5" Thick (6.35 cm)	ASTM E96	1.99 (119 ng/(m <sup>2</sup> •Pa•s))- Class III Vapor Retarder 1.18 (71 ng/(m <sup>2</sup> •Pa•s))- Class III Vapor Retarder
Water Absorption	ASTM D2842	2.9%
Fire Rating- Tested at 2" Thickness	ASTM E84	Flame Spread Index 75 Smoke Developed 450
UL 94	UL94	HF-1
DIN 4102.1		B2

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

# **Packaging and Yields**

VapAir Seal Flashing Foam	41 lbs packaging	115 lbs packaging
Part Number	326390	Part A - 336116 Part B - 336117
Board Feet	205 (19m <sup>2</sup> )	605 (56.2m <sup>2</sup> )
Linear Feet 1" Bead	3132	9236
Linear Feet 2" Bead	783	2309

\* Yields are based on cured material

# LEED<sup>®</sup> Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Akron, Ohio



**Single-Ply Simplified** 

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