



**1. Product Name**

**VAPROBOND™**

**2. Manufacturer**

VaproShield, LLC.  
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**3. Product Description**

**OVERVIEW**

VaproBond is a single component 100% silicone sealant designed to adhere low surface energy materials to themselves. Use VaproBond to bind layers of VaproShield membranes and/or adhere to typical construction material surfaces and/or as a liquid-applied flashing component with metal framing systems.

VaproBond is suitable for all climates, especially cold temperatures as low as -20 °F (-29 °C). VaproBond is appropriate for vertical or horizontal above-grade applications to concrete, masonry, natural stone, structural sheathing, architectural metal panels, painted metals, glass, PVC, FRP, EPDM, all VaproShield WRB/Air Barrier membranes, and most other building materials.

**BENEFITS**

- Functions as a sealant and an all-weather silicone liquid flashing material
- Bonds to most common building materials without priming to produce a durable, structural, air and moisture tight seal.
- Excellent weatherability, UV stable for extended exposure
- Remains flexible under extreme temperatures
- Usable over a wide temperature range.(-50 ° to 300 °F (-45° to 149 °C)
- Contributes to improved air and water tightness of flashing systems; sealing membrane edges, overlaps, exposed corners and penetrations.

**MATERIAL**

VaproBond is a single-component, black silicone-based adhesive sealant. It is easy to gun, spread, and tool producing a highly durable, seamless flashing membrane or seal.

**PACKAGING**

20 oz. (592 ml) sausages

**4. Technical Data**

<b>VaproBond</b> meets or exceeds ASTM-C-920 type S, Grade NS, Class 25	
Shelf Life	12 months stored in unopened sausages at temperatures lower than 80 °F (27 °C)
Service Temperature	-50 ° to 300 °F (-45° to 149 °C)
Water Vapor Transmission ASTM E398	2 perms @ 31 mil (0.8 mm)
Dynamic Joint Movement ASTM C719	±25 %
Elongation ASTM D412	1500 %
Tensile Strength ASTM D412	165 psi
Modulus, 100 % Elongation ASTM D412	33 psi
Elongation at Break	400%
Peel Strength	12 pli
Tack-Free Time ASTM C679	50 minutes
Adhesion ASTM C794 – 15a	Pass
VOC Content ASTM D3960	80 g/L

**5. Installation**

**APPLICATION**

Before use, read “Preparation” and “Safety Information.”

**DILUTION**

Apply as packaged. Do not dilute or alter, or use for applications other than specified. No mixing required.

**SIZES/COVERAGE:**

VaproBond is available in 20 fl oz (592 g/ml) sausages.

**SEALANT**

For use as a sealant, a ¼” (6 mm) bead will adhere 125 ft. (38 m) of overlapping membrane.

**FLASHING**

When used as a flashing component on metal framing, coverage varies based on surface texture and irregularities. A typical application at a 30-45 wet mil (0.76 – 1.14 mm) is 6-8 ft<sup>2</sup> (0.56-0.74 m<sup>2</sup>) per 20 fl oz (592 g/ml) sausage.

**PREPARATION**

- To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion.
- Protect people, vehicles, property, plants and all other surfaces not intended to receive VaproBond.

- Remove and replace damaged sheathing that is to be coated.
- Ensure positive drainage at all rough openings.

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, surface preparation, and application procedure planned for general application.

### SURFACE AND AIR TEMPERATURES

Surface and ambient temperatures should be above -20 °F (-29 °C) and below 120 °F (48.9 °C) during application and drying. Though VaproBond tolerates rain after installation, do not apply to surfaces that are covered with standing water or frost. It is recommended VaproBond be stored above 40 °F (4.4 °C) prior to installation. Wind and high temperatures will accelerate drying of VaproBond.

### EQUIPMENT / INSTALLATION

Apply using a professional caulking gun. When needed, use a DRY joint knife, trowel, or spatula to spread the product. Do not use soapy water or alcohol when tooling or spreading.

#### SEALANT

As a sealant use a ¼" (6 mm) bead of sealant between overlapping membranes. Use a hand roller, applying firm pressure to the overlapping membrane surface, expanding the sealant to 1 inch (25.4 mm) ensuring adhesion and smooth surface for the application of the VaproBond.

#### FLASHING

When used for metal framing cover the rough opening uniformly at a 30-45 wet mil (0.76 – 1.14 mm) thickness to ensure a water/air tight seal.

### SEALANT COMPATIBILITY

Visit [VaproShield.com](http://VaproShield.com) to review the extensive list of compatible sealants from various manufacturers.

### CURING AND DRYING

At 77 °F (25 °C) and 50% relative humidity, product is tack-free 25-35 minutes. Higher temperature and/or humidity will shorten this time. Cured service temperatures: -50 ° to 300 °F (-45° to 149 °C).

### STORAGE & HANDLING

Store VaproBond unopened sausages at temperatures lower than 80 °F (27 °C). Do not open sausage until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80 °F (27 °C) VaproBond has a shelf life of 12 months after the date of manufacture. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

### LIMITATIONS

VaproBond should **not** be used in the following:

- **As liquid flashing for wood framed openings, VaproLiqui-Flash is recommended**
- As a substitute for appropriate through-wall flashing.
- Water immersion or below grade or in locations designed to be continuously immersed in water.
- On surfaces requiring painting with traditional organic based coatings.
- As a structural glazing sealant.

### CLEANUP

Immediately remove all excess VaproBond in undesired areas with mineral spirits. Clean tools and equipment with mineral spirits or similar solvent immediately after use. Observe all manufacturer's safety precautions. Remove cured VaproBond using a sharp-edged tool.

## 6. Safety Information

Use with adequate ventilation, safety equipment and jobsite controls during application and handling. Read the full label and SDS for precautionary instructions before use.

### FIRST AID

**Ingestion:** DO NOT induce vomiting. Have victim rinse mouth with water, if conscious. DO NOT give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**Eye Contact:** In case of contact with eyes, lips, or mouth, flush thoroughly with water. If irritation develops consult a physician.

**Skin Contact:** Wash with fresh water. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. If victim is having trouble breathing, move to medical care.

**24-Hour Emergency Information: INFOTRAC at 800-535-5053.**

## 7. Availability

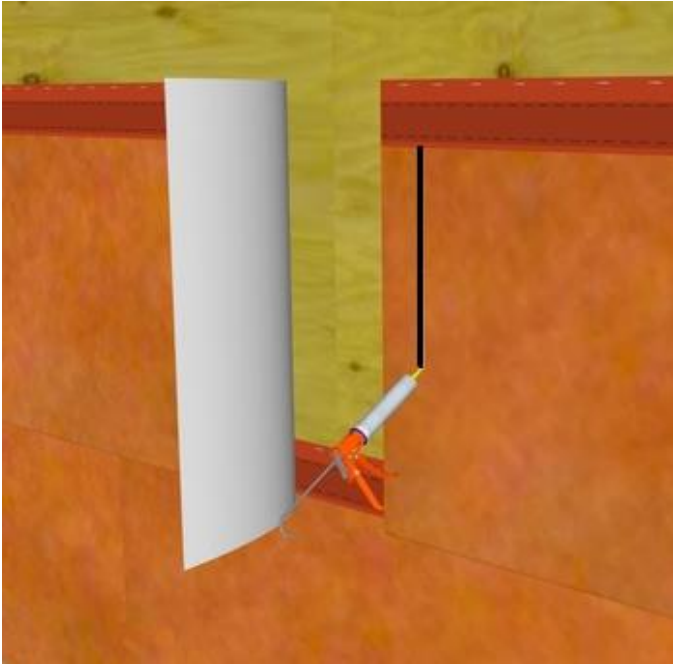
VaproShield products are available from qualified representatives and distributors throughout North America; contact VaproShield or visit [www.vaproshield.com](http://www.vaproshield.com) or [www.vaproshield.ca](http://www.vaproshield.ca) for local contact information.

## 8. Warranty

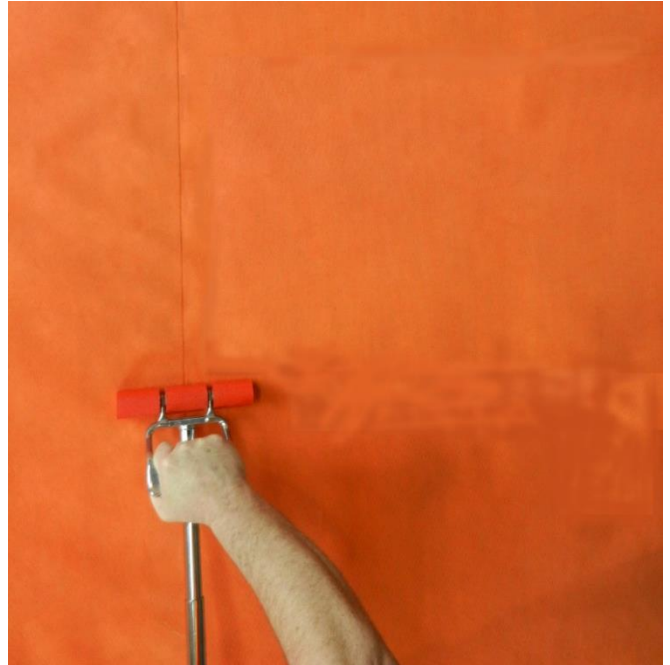
Information and recommendations are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made because we cannot anticipate every application or variations encountered in building surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose. VaproShield has tested this product with VaproShield membranes only, and have found the product to be fit for use with VaproShield membranes. For more information, view complete warranty at [VaproShield.com](http://VaproShield.com).

9. Typical Uses for step-by-step details visit [VaproShield.com](http://VaproShield.com)

**SEALANT** – between membranes edges and overlaps



VaproBond is a gunnable adhesive sealant for VaproShield mechanically attached membranes.

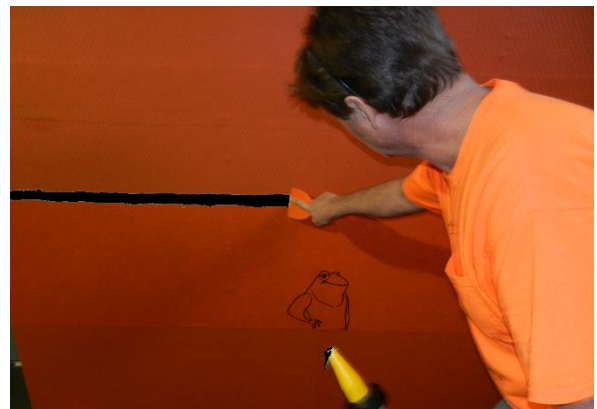


Use hand roller to seal the seam for an air and water tight seal.

**SEALANT** – Reverse Laps

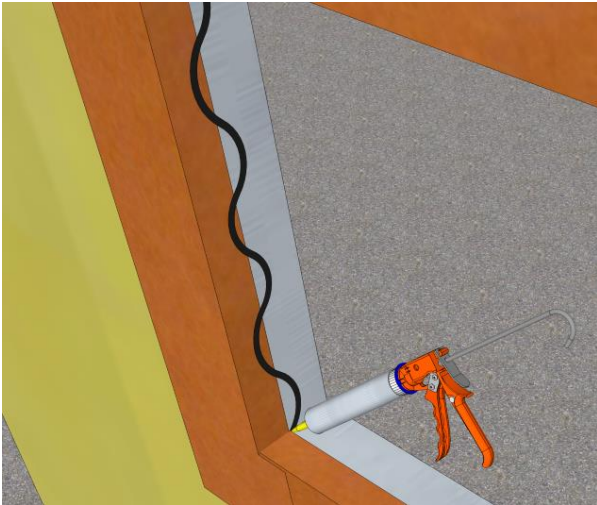


Apply 3/8" (9.5mm) minimum bead line of VaproBond to the reverse lapped membrane.

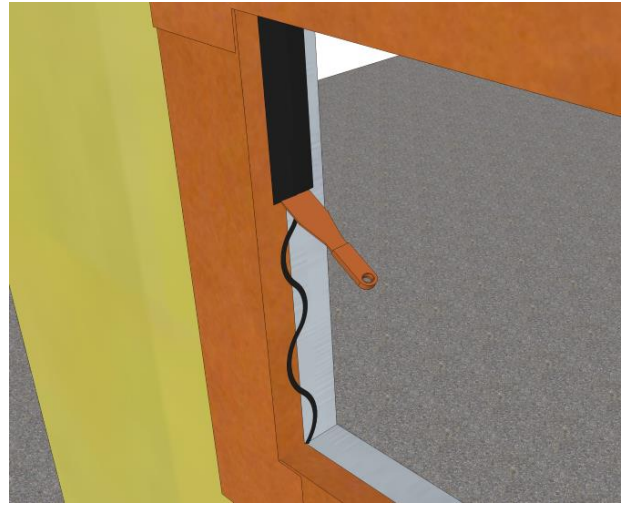


Use a DRY joint knife or trowel to tool VaproBond to shed water.

**FLASHING** - Rough Opening



Apply VaproBond to rough opening, using a professional caulking gun around rough opening in a zigzag pattern at a 30-45 wet mil (0.76 – 1.14 mm) thickness to ensure a water/air tight seal.

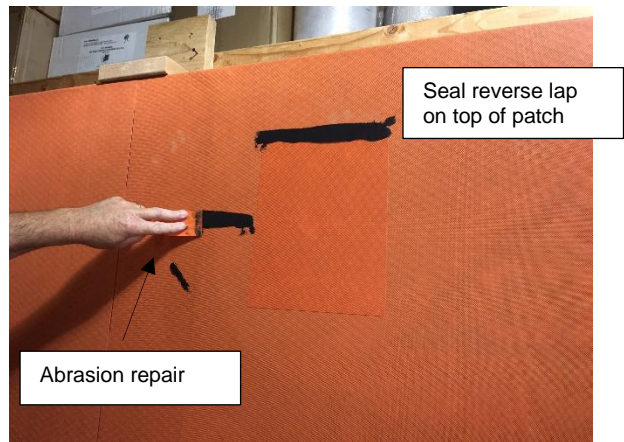


Use a DRY joint knife, trowel, or spatula to tool VaproBond to inside of rough opening.

**REPAIRS**



Membrane abrasion and/or hole, prior to repair.



For Hole Repair: Apply patch of membrane to hole and seal the reverse lap (at top) with VaproBond to ensure a water and air tight seal.  
For abrasions apply VaproBond over abrasion and tool with a DRY joint knife, trowel, or spatula.