

Low-VOC Bonding Adhesive 1168



Overview

Low-VOC Bonding Adhesive 1168 is a high-strength, solvent-based contact adhesive that allows bonding of EPDM and TPO membrane to various porous and non-porous substrates. This product meets the < 250 gpl VOC content requirements of the SCAQMD 1168 Model Rule for Single-Ply Roofing Adhesives. Low-VOC Bonding Adhesive 1168 is compatible with polyisocyanurate insulation, structural and lightweight concrete, plywood, oriented strand board, wood fiberboard, SECUROCK®, masonry and various metal finishes. Low-VOC Bonding Adhesive 1168 is easily applied with a 9" (228 mm) medium nap roller to create a strong adhesive bond between the membrane and substrate.

This product complies with the following California counties' VOC regulations: Alameda, Contra Costa, El Dorado, Los Angeles, Marin, Napa, Orange, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, San Mateo, Santa Clara, Solano, Sonoma and Tehama.

Features and Benefits

- » High-strength adhesive that enables quick bonding
- » Easily applied with a medium nap roller
- » Excellent adhesion between substrates and membranes

Mixing

Stir thoroughly until all settled pigments are dispersed and the adhesive is uniform in color. Minimum 5 minutes stirring is recommended.

Coverage Rate

60 square feet (5.6 m²) per gallon of finished surface. Coverage rates are average and may vary due to conditions on the jobsite. Porous surfaces, especially walls, and substrates may require more bonding adhesive than the typical coverage rate.

Application

1. The surface, on or against which adhesive is to be applied, shall be clean, smooth, dry and free of fins, sharp edges, loose and foreign materials, oil and grease. Depressions greater than ¼" (6 mm) should be feathered using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.
2. **After thorough stirring (minimum 5 minutes)**, apply Low-VOC Bonding Adhesive 1168 to substrate and membrane using a 9" (228 mm) medium nap roller. Application shall be continuous and uniform, avoiding globs or puddles. Low-VOC Bonding Adhesive 1168 must be allowed to flash off until it does not string or stick to a dry finger touch. Any coated area, which has been exposed to rain, should be allowed to dry and then recoated. **Do not apply adhesive to splice areas to be hot-air welded. Do not apply adhesive to splice areas or use in conjunction with Carlisle's pressure-sensitive tapes.**
3. Roll the membrane onto the adhesive-coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft bristle push broom to achieve maximum contact. In some applications, swelling of the membrane may occur initially, but this will disappear after several days of exposure. Do not re-broom membrane in an attempt to remove swelling.

Note: This adhesive may be slightly thicker than standard Low-VOC Bonding Adhesive and may require longer drying time.

Review Carlisle specifications and details for complete installation information.

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Precautions

- » Review the applicable Material Safety Data Sheet for complete safety information prior to use.
- » Bonding Adhesives are **EXTREMELY FLAMMABLE**. They contain materials that are a dangerous fire and explosion hazard when exposed to heat, flame or sparks. Store and use away from all sources of heat, flame or sparks. Do not smoke while applying. Do not use in a confined or unventilated area. Vapors are heavier than air and may travel along ground to a distant ignition source and flash back. A red caution label is required when shipping.
- » During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. Do not place open containers or mix adhesive near fresh-air intake units. When possible, shut down or seal off the closest units.
- » Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
- » If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
- » Avoid contact with eyes. Safety glasses or goggles are recommended. If splashed in eyes, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician immediately.
- » Avoid contact with skin. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water.
Note: Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) are recommended to be worn when using this product to protect hands from irritating ingredients.
- » Do not thin Bonding Adhesive. Thinning will affect performance.
- » Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Do not store sealed containers on roof for extended periods of time. Should the Bonding Adhesive be stored at temperatures below 60°F (15°C), restore to room temperature prior to use.
- » Open containers of Bonding Adhesive should be used within 48 hours. The adhesive will begin to thicken after this time, making it difficult and eventually impossible to control adhesive thickness.
- » KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

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| Base | Synthetic Rubber |
| Color | Yellow |
| Solids | 21.0% |
| VOC | 250 g/L max |
| Flash Point | 0°F (-17°C) Closed Cup |
| Brookfield Viscosity | 5,000 Centipoise |
| Average Net Weight | 10.5 lbs/gal (1.3 kg/liter) |
| Packaging | 5-gal Pail |
| Shelf Life | 1 Year |

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 or specification range for any particular property of this product.