

Solvent-Free EPDM Bonding Adhesive



Overview

Carlisle's Solvent-Free EPDM Bonding Adhesive is a high-strength, polymer-based adhesive that facilitates extremely fast installations of EPDM membranes to various substrates. This adhesive is specially designed for installing Carlisle's reinforced and non-reinforced EPDM membranes.

Solvent-Free EPDM Bonding Adhesive is compatible with standard paper-faced InsulBase® polyisocyanurate insulation, structural and lightweight concrete, plywood, oriented strand board, SECUROCK®, DensDeck® Prime, masonry, and various metal finishes. SecurShield® and SecurShield HD are not approved substrates due to the occurrence of blisters. This adhesive is designed for a single-sided, wet lay-in installation on roofs with slopes of 1":12" or less.

Features and Benefits

- » No mixing required
- » Solvent-free and non-flammable
- » Virtually odor-free
- » Complies with Low-VOC regulations
- » Provides excellent adhesion between various substrates and EPDM membranes

Coverage Rate

100 square feet (9.29 m²) per gallon of finished surface.

Application

The surface on or against which the 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) shall be feathered using epoxy, mortar, or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.

Solvent-Free EPDM Bonding Adhesive is a heat- and moisture-curing adhesive. Curing times vary depending on the weather conditions at time of application.

The ambient temperature must be 40°F and rising during application.

Field Application (Slopes of 1" : 12" or less)

1. The use of a mechanical roller dispenser is recommended for applying this adhesive, provided that a continuous coating and the recommended coverage rate of 100 sq ft/gallon can be obtained. If you are unable to achieve the proper coverage rate with a mechanical roller dispenser, its use must be discontinued, and the adhesive must be applied using a 9"-wide, 3/8" nap roller cover to achieve the proper coverage rate of 100 sq ft/gallon.

When using a mechanical roller dispenser in conjunction with a 5-gallon pail, the recommended hole size and spacing is ¼" holes placed ½" o.c.

When using a mechanical roller dispenser with a plastic holding tank, the recommended hole size and spacing is ½" holes placed 1" o.c.
2. Apply adhesive to the substrate using a mechanical roller dispenser, meeting the 100 sq ft/gallon coverage rate. Avoid applying adhesive in splice areas. Clean adhesive from splice areas with Carlisle's Weathered Membrane Cleaner.
3. Since this adhesive is used in wet lay-in applications, 100% coverage of the substrate is required. **Carlisle requires backrolling with hand rollers following behind the spreader to ensure even coverage.** There should be no bare or dry areas. These will result in unadhered areas that will appear as blisters.
4. Begin adhesive application next to the membrane area that will be installed first. Apply adhesive the length of the membrane before moving outwards from the membrane.

Immediately after applying the adhesive to the substrate, install the EPDM membrane. The membrane must be installed within 5 minutes after adhesive application. If membrane is not installed within this time frame, it may not adhere to the substrate. If this occurs, apply a thin, fresh coat of adhesive to the previously coated surface.

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- Immediately after installing the membrane, roll the membrane with a 150-lb. weighted roller to ensure proper mating of the membrane to the substrate. It's recommended to re-roll this area 30 minutes after the membrane has been installed.

If the membrane is not immediately installed and then rolled with a weighted roller, air bubbles may appear underneath the membrane.

Wall Application (Slopes greater than 1" : 12")

- Apply the adhesive to the substrate and membrane using a 9" (230 mm)-wide, medium nap roller, achieving 100 sq ft/gallon of finished surface.
- Allow the adhesive to become tacky and develop strings before installing the membrane.
- Immediately roll the surface using a 2"-wide roller to ensure proper mating of the two surfaces.

Review current Carlisle specifications and details for specific application requirements.

Precautions

- Review the applicable Material Safety Data Sheet(s) for complete safety information prior to use.
- 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 clean 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 the affected area with soap and water.

Note: Carlisle recommends permeation-resistant gloves (that meet ANSI/ISEA 105-2005) be worn when using this product to protect hands from irritating ingredients.

- Apply adhesive only if ambient temperature is 40°F (4°C) and rising. Do not apply if the ambient temperature will drop below 30°F (-1°C) within 8 hours.
- Jobsite storage temperatures in excess of 90°F (32°C) will shorten the product's shelf life. Should the bonding adhesive be stored at temperatures below 60°F (15°C), restore to room temperature prior to use.

- These materials are sensitive to atmospheric moisture; heat will accelerate the effect of moisture. The adhesive will form a surface "skin" once it is opened and exposed to moisture, but can be used once the layer of skin is removed. Opened containers of bonding adhesive should be used within 48 hours.
- » KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

Base	Polyether
Color	Clear
Solids	100%
Flash Point	Not Applicable
Average Brookfield Viscosity	7,000 cP
Average Net Weight	8.2 lbs per gallon
Packaging	5-gallon pails
Shelf Life	6 months

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.

LEED® Information

Pre-consumer Recycled Content	0
Post-consumer Recycled Content	0
VOC Content	<57 g/L
Manufacturing Location(s)	Schoolcraft, MI