

CARLISLE'S AQUA BASE 120 BONDING ADHESIVE



Overview

Let Carlisle simplify your next single-ply membrane installation with their Aqua Base 120 Bonding Adhesive. Aqua Base 120 is a unique, semi-pressure sensitive water-based bonding adhesive for FleeceBACK®, EPDM, TPO and PVC membranes offering superior peel strengths without V.O.C.'s or strong odors.

Intended Uses

Aqua Base 120 Bonding Adhesive is a semi pressure-sensitive water based adhesive. This product may be used as a one-sided, wet lay-in adhesive on horizontal surfaces with Sure-Seal®, Sure-White™ or Sure-Weld™ FleeceBACK membranes in either 100- or 115-mil thicknesses. It can also be used as a 2-sided contact adhesive with standard Sure-Seal EPDM, Sure-White EPDM, Sure-Weld TPO or Sure-Flex™ PVC membranes.

Features and Benefits

- Low VOC's
- Low or no odor
- Can be sprayed or roller applied
- Can be used for FB and non-FB membranes
- Typical warranties are 5, 10 or 15 year terms

Application **

1. The surface, on which or against 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 or step-offs greater than 1/4" (6 mm) shall be feathered; using epoxy, mortar or other approved patching material. All sharp projections should be removed by scraping, sweeping, blowing, vacuum cleaning, etc.
2. Aqua Base 120 Bonding Adhesive is approved for use on Polyisocyanurate, HP Recovery Board, Dens Deck Prime, OSB, plywood, cellular lightweight, and structural concrete. The wet lay-in procedure is not acceptable over existing roof systems or decks with residual adhesive or asphalt. A porous substrate is required for Aqua Base to work properly.
3. **Stir until settled material or phased liquid is redistributed and the adhesive is uniform in color.**
4. Apply adhesive to the substrate in a uniform manner **avoiding globs, puddles, and uncoated areas.** Avoid accumulation of adhesive between insulation joints. Do not exceed the published coverage rate.
5. Application methods:
 - a. Roller Application - Use a medium nap roller
 - b. Mechanical Roller Application - Follow the manufacturer's safety and use procedures.
 - c. Mechanical Spray Application - Follow the manufacturer's safety and use procedures.
 - Tip sizes between .019"-.023" in a Graco 510 gun.
 - A minimum fluid pressure of 2,500 psi is required for a fair pattern.
 - Back rolling is recommended.
 - Flush with water at the end of the day.

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FleeceBACK Membrane (wet lay-in method): Coat the substrate with Aqua Base 120 Bonding Adhesive and roll FleeceBACK 100 -115 mil membrane into the wet adhesive. Avoid heavy or thin application of adhesive. Immediately install the membrane while the adhesive is still wet. If adhesive has become translucent, recoat with additional adhesive. Care must be taken with the "barn door" method of sheet installation to avoid dry (translucent) adhesive. Lift the membrane in a few areas to ensure adhesive is transferring to the fleece. Roll with a 100-150 lb. weighted roller to achieve maximum contact. Pay particular attention to rolling the membrane along the insulation joints, especially on DensDeck Prime due to the slight step-off of the facer. All adhesive residue in the splice area must be removed. Cure rates are between 12-72 hours depending on porosity of substrate and weather conditions. Re-rolling within 24 hours may be necessary if the substrate is uneven or the sheet contains some fullness. Temporary weighting of the membrane may be necessary until the adhesive cures to address pronounced sheet fullness. Do not use the FleeceBACK AFX membranes for the wet lay-in application.

FleeceBACK Membrane (vertical walls 2-sided contact method): Coat the fleece backing and allow the adhesive to completely dry. Test for dryness by pressing the back of a finger into the fleece to check that the adhesive is dry throughout the fleece layer. Once the adhesive on the fleece is dry, apply a standard coat of adhesive to the wall and a second coat to the fleece backing and allow drying. Adhesive will turn translucent when dry. Mate the membrane with the adhesive coated wall, while avoiding wrinkles. Immediately broom the bonded portion of the sheet with a stiff bristle push broom or roll the membrane using a 3" wide "J" roller (preferred) to achieve maximum contact. Please note the fleece will develop a dry top surface while still holding moisture in the fleece and does require complete drying prior to the mating of the membrane to the wall substrate. Installing the membrane while the adhesive is still wet will trap moisture and cause blisters or loose membrane.

Standard Membrane (2-sided contact method): Apply Aqua Base 120 Bonding Adhesive to the membrane and the substrate at the recommended rate. The adhesive must be allowed to dry until the adhesive turns translucent and does not transfer to a dry finger touch or pull away from the membrane. The dried adhesive should remain tacky before assembly. Mate the membrane with the adhesive coated substrate, while avoiding wrinkles. Immediately roll the bonded portion of the sheet with a 100-150 lb. weighted roller to achieve maximum contact. Pay particular attention to rolling the membrane along the insulation joints, especially on DensDeck Prime due to the slight step-off of the facer. The adhesive contains no solvents to react with the membrane therefore rolling the sheet is **critical**. Extended drying times can be expected in cool, overcast, humid, shaded or late day applications. The adhesive must be dry to avoid permanent blisters from trapped moisture. Coated areas exposed to moisture shall be allowed to dry and then recoated. All adhesive residues in the splice area must be removed.

The product is approved for use by Carlisle authorized roofing applicators only and is for use in Carlisle roofing and waterproofing installations.

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Precautions

1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.
2. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air.
3. If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
4. 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.
5. Avoid contact with skin. Wash your hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water.
6. Job site storage temperatures in excess of 90°F (32°C) may affect product shelf life. DO NOT ALLOW PRODUCT TO FREEZE. Do not store below 40°F.
7. Do not thin the Aqua Base 120 Adhesive. Thinning will affect performance and may coagulate the adhesive.
8. Adhesive will turn translucent when completely dry. Dry time is dependant on ambient conditions.
9. This adhesive is to be applied when the ambient temperature is 40°F (4°C) and rising. Do not apply if ambient temperature will drop below 32°F (0°C) before adhesive completely dries.
10. Opened containers of adhesive should be used within 48 hours. The adhesive will form a thick surface skin that will not re-dissolve. Adhesive can be used once the skinned layer is removed.
11. KEEP OUT OF THE REACH OF CHILDREN.

Coverage Rates

Coverage rate is 100 - 120 ft (11.6m) of finished surface area per gallon when applied to an approved substrate for wet lay-in with FleeceBACK 100 or 115 mil membranes (standard gray fleece). The coverage rate is also 100-120 ft of finished surface area per gallon when used as a contact adhesive and applied on both the substrate and standard membrane. Coverage rates are average and may vary due to conditions such as insulation type or wall construction. **Do not** exceed the coverage rate listed above, as it will have a detrimental effect on the system performance. One 5-gallon pail should cover a maximum 6 square area of finished roof surface.

Typical Properties and Characteristics

Base	Acrylic
Color	White (translucent when dry)
Solids	62.5%
Flash Point	None
Brookfield Viscosity	16,000 Centipoise
Average Net Weight	8.8 lbs/gal (1.05 kg/l)
Packaging	5 Gallon Pail
Shelf Life	1 Year
VOC	8 grams per liter

Investing in Roofing Solutions for Over 45 Years

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