

Aqua Base 120 Bonding Adhesive



Overview

Aqua Base 120 Bonding Adhesive is a semi-pressure-sensitive, water-based adhesive for WeatherBond RBR EPDM and WeatherBond PRO TPO membranes, offering good peel strengths with low VOCs and no strong odors. This product may be used as a two-sided contact adhesive with standard WeatherBond RBR EPDM or WeatherBond PRO TPO membranes.

Features and Benefits

- Low VOCs, only 4 g/L
- Low or no odor
- Can be sprayed or roller-applied

Coverage Rates

Coverage rate is 100–120 ft² of finished surface area per gallon when used as a contact adhesive and applied on both the substrate and standard membrane. NOTE: Aqua Base 120 will be applied at half the prescribed thickness to both the substrate and membrane, netting 200–240 ft² of overall coverage. 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.

Application

1. 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 or step-offs greater than ¼" (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, SecurShield, SecurShield HD, Securock, OSB, plywood, cellular lightweight concrete over vented deck 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
 - 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

Standard Membrane (two-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 completely. Aqua Base 120 will change from a pink color to a clear with a yellow cast as the water evaporates, indicating it is ready to be mated together. 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

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membrane along the insulation joints. The adhesive contains no solvents to react with the membrane, and 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.

Standard Membrane (vertical walls two-sided contact method):

Let the wall flashing membrane relax and warm to minimize the natural tendency of the membrane to curl. Apply a medium to heavy coat of adhesive to the wall first and then a standard coat to the flashing membrane and allow thorough drying. Aqua Base 120 will change from a pink color to a clear with a yellow cast as the water evaporates, indicating it is ready to be mated together. Not allowing the adhesive to dry completely will result in poor adhesion strength or blisters occurring over time. 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 and roll the membrane, starting in the angle change and working the membrane up the wall, using a 3"-wide "J" roller (preferred) to achieve maximum contact. Roll up from the base evenly and work in small sections gaining good attachment at the lower portions before moving up to the top of the membrane. Temporary pinning or taping the top membrane edge to the wall may be necessary to prevent membrane curl back until the termination detail can be completed.

REVIEW CURRENT WEATHERBOND SPECIFICATIONS AND INSTALLATION GUIDE FOR SPECIFIC APPLICATION REQUIREMENTS.

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. Jobsite 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 from pink to clear with a yellow cast 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. Extended drying times can be expected in cool or humid conditions as well as shaded areas. Not allowing the adhesive to dry in a standard membrane application will result in poor adhesion strength or blisters occurring over time.
12. KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

Property	Results
Base	Acrylic
Color	Pink (yellow when dry)
Solids	57.5%
Flash Point	<212°F
Brookfield Viscosity	20,000 Centipoise
Average Net Weight	8.8 lbs/gal (1.05 kg/L)
Packaging	5-gallon 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 range for any particular property of this product.

LEED® Information

Post-industrial Recycled Content	0%
Pre-consumer Recycled Content	0%
VOC Content	4 g/L
Manufacturing Location(s)	Greenville, SC