



Modular Water Based Bonding Adhesive (WBA-3781)



1. Description

Modular Water Based Bonding Adhesive is an adhesive specifically for wet-mating Firestone RubberGard EPDM membranes onto acceptable wooden substrates in indoor environment (prefab elements).

Modular Water Based Bonding Adhesive can also be used as a contact adhesive onto approved insulations in addition to wood, masonry and other acceptable substrates.

2. Preparation

Surfaces that will receive Modular Water Based Bonding Adhesive must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants. The mating surface shall be cleaned with a brush or clean rag. Restore the adhesive to room temperature (15°-25°C) before use if the product has been exposed to temperatures lower than 15°C for a prolonged period. Stir the adhesive thoroughly (to achieve a uniform mix with no sediment on the bottom and no marbling evident) before and during use.

3. Application

Wet-mated application.

Water Based Bonding Adhesive will be mated while still wet directly over plywood or OSB substrates (only types that are not treated against water absorption). Apply Water Based Bonding Adhesive over plywood or OSB with a paint roller, taking care to completely cover the plywood or OSB substrate evenly to avoid globs and puddles of adhesive. The EPDM membrane shall be mated immediately after the bonding adhesive is applied by rolling the membrane in place over the plywood or OSB. To ensure proper adhesion, compress the bonded portion of the sheet to the substrate with a stiff push broom or heavy roller.

Caution: the wet-mated application method is only applicable when membrane is bonded indoors, not exposed to any wind stresses for 48 hours and not exposed to freezing temperatures for minimum 48 hours after mating of EPDM to substrate.

Two-side contact application.

Start applying Water Based Bonding Adhesive onto the substrate and later to the exposed underside of the EPDM membrane so as to allow approximately the same drying time. It's recommended that the application temperature is above 5°C.

Apply Bonding Adhesive evenly avoiding areas of accumulation. Apply the Bonding Adhesive with a paint roller, and roll the adhesive onto the mating surfaces. When applying Bonding Adhesive, ensure complete uniform coverage of both surfaces that will be adhered. Care must be taken not to apply Bonding Adhesive over seam areas.

Allow adhesive to flash off until tacky (time depending on ambient air conditions) prior to mating the surfaces. Test the adhesive for its dryness, using the touch-push test procedure (the adhesive must become transparent). Do not over-dry. Roll the membrane into the substrate. Ensure strong bond by compressing the EPDM to the substrate with a stiff push broom or heavy roller.

Refer to the Firestone guidelines for specific installation instructions.



4. Coverage

Coverage rates depend on the smoothness of substrate and method of application.

- Wet mating: between 10 and 12 m² per gallon.
- Contact Adhesive application: between 6 and 9 m² per gallon.

Some surfaces are more uneven and porous and will result in lower coverage rates, while smoother substrates are less porous and will therefore result in higher rates.

5. Characteristics

Physical

- Contains no solvents
- Excellent resistance to aging
- Good resistance to heat and cold
- Outstanding adhesion to approved substrates for maximum performance

Technical

- Base Latex
- Color White (when first applied)
Translucent (when carrier evaporates)
- Solids 49% (minimum)
- Viscosity 3300-3800 cp
- Specific gravity 1.0
- Flash Point > 100°C

6. Packaging / Storage / Shelf Life

Packaging	18.9 l (5 gallon) pail
Part number	W563587037

Storage: Store in original unopened containers at moderate temperatures (15°C-25°C) in a dry, well-ventilated area. Protect from direct sunlight. If necessary, use an insulated box to maintain the product at moderate temperatures during transport to the job site, before and during application. This will assure the appropriate viscosity, efficiency and performance of the adhesive. Do not allow product to freeze.

Shelf life: 12 months can be expected if stored in above-mentioned conditions. Subzero temperatures will make product unusable. Shelf life information is only a recommendation and not a fact of life. The real expiration date highly depends on the history of storage and handling of the accessories. Once opened, use within 48 hours.

Disposal: Make sure that the pail is empty prior to disposal. Adhesive cannot be disposed in drains. Dispose content and/or pail in accordance to national regulations.

7. Precautions

Refer to Material Safety Data Sheet. For professional use only. Use only in well-ventilated areas. Keep pail closed when not in use. Avoid prolonged contact with skin and eyes. Do not contaminate with foreign materials and avoid contact with water sensitive materials and strong oxidizers. Keep out of reach of children. Thinning is not allowed.

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