

Modular Water Based Bonding Adhesive (WBA-3781)

1. Description

Modular Water Based Bonding Adhesive is a contact adhesive designed specifically for bonding Firestone RubberGard EPDM membranes to approved insulations in addition to wood, masonry and other acceptable substrates.

2. Preparation

Surfaces that will receive Firestone 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. Stir the adhesive thoroughly (to achieve a uniform mix with no sediment on the bottom and no marbling evident) before and during use. Restore the adhesive to room temperature prior to use, if exposed to temperatures lower than 15°C for a prolonged period.

3. Application

Apply Bonding Adhesive at about the same time to both the exposed underside of the sheet and the substrate to which it will be adhered so as to allow approximately the same drying time.

Apply Bonding Adhesive evenly avoiding areas of accumulation. Apply the Bonding Adhesive with a solvent resistant 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.

Bonding Adhesive can be dispensed by means of RoofTop SuperSpreader in order to achieve a more uniform coverage and obtain higher coverage rates.

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.

As an alternative to the contact adhesion application method, outlined above, Water Based Bonding Adhesive may also be mated while still wet directly over plywood or OSB substrates only. Apply Water Based Bonding Adhesive over plywood or OSB with a solvent resistant 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 as soon as possible 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. The optional Wet Mating 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.

4. Coverage

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

- Contact Adhesive application: between 6 and 9 m² per gallon.
- Wet mating: between 8 and 10 m² per gallon.

5. Characteristics

Technical	■ Base	Latex
	■ Colour	White (when first applied) Translucent (when carrier evaporates)
	■ Solids (%)	49.0-52.5%
	■ Viscosity (cp)	16000-20000
	■ Specific gravity	1.0

6. Packaging / Storage / Shelf Life

Packaging: 3.8 l (1 gallon); 13.25 l (3.5 gallon); 18.9 l (5 gallon) pail.

Storage: store in original unopened containers at temperatures between 15°C - 25°C until ready for use. Keep the material out of direct sunlight until ready for application.

Shelf life: 12 months can be expected if stored in above-mentioned conditions. 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. Quality and applicability should thus always be verified: when mixed, product should stir into a smooth and homogeneous blend with no evidence of major clumping or separation/phasing.

7. Precautions

Refer to Material Safety Data Sheet. Avoid prolonged contact with skin. Keep away from eyes. Thinning is not allowed.

