



## Modular Water Based Bonding Adhesive WBA-3781

**Firestone Item Number:**  
**W563587037 – 5 gal (18.9 L) Pail**  
**W563587036 – 55 gal (208.2 L) Drum**  
**W563587039 – 330 gal (1249.2 L) Tote**

**DESCRIPTION:**

Firestone Modular Water Based Bonding Adhesive WBA-3781 is a contact adhesive designed for bonding RubberGard™ EPDM and FormFlash™ to wood, metal, masonry and acceptable substrates for modular installations.

**METHOD OF APPLICATION:**

**Preparation:**

1. Bonding surfaces must be clean, dry, smooth, free of sharp fins and edges, loose and foreign materials, oil and grease, and any other contaminants.
2. Stir adhesive thoroughly before and during use.
3. Use only when temperatures will not fall below freezing at anytime 48 hours after mating of EPDM to substrate.

**Standard Application Method:**

Two-side contact cement application.

1. Using a 6 mm to 12 mm nap x 228 mm (¼" to ½" nap x 9") wide solvent resistant paint roller, apply an even coat of WBA-3781 to each bonding substrate (membrane and substrate), simultaneously avoiding globs and puddles of adhesive.
2. Apply at a rate of approximately 2.9-4.9 m<sup>2</sup>/L (120-200 ft<sup>2</sup>/gal)/substrate, which results in 1.5-2.5 m<sup>2</sup>/L (60-100 ft<sup>2</sup>/gal) coverage when mated.
3. Allow to dry until pushing on the adhesive at an angle with a clean dry finger reveals no movement within the adhesive layer, and that the adhesive layer is solid. If this "push test" reveals movement within the adhesive layer, the adhesive is not ready to be mated. The adhesive will change from a white color to translucent as it evaporates. Drying time will vary depending on ambient air conditions. It is recommended that the application temperature be above 4.4 °C (40 °F). Do not over-dry.
4. Roll the membrane into the substrate. Ensure a strong bond by compressing the EPDM to the substrate with a stiff push broom using heavy mating pressure.

**Optional Application Method:**

Wet-mated application for horizontal plywood and oriented strand board (OSB) substrates only (indoor application only).

1. Using a 6 mm to 12 mm nap x 228 mm (¼" to ½" nap x 9") wide solvent resistant paint roller, apply WBA-3781 over OSB or plywood, taking care to completely cover the substrate evenly to avoid globs and puddles of adhesive.
2. Mate the EPDM to the coated OSB or plywood immediately by rolling the membrane in place over the substrate.
3. To ensure proper contact, compress the bonded portion of the sheet to the substrate with a stiff push broom.

*CAUTION: This method is ONLY applicable when EPDM membrane is bonded indoors and not exposed to wind forces AND freezing temperatures for 48 hours (minimum).*

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**COVERAGE RATE:**

**Standard Application Method:** 1.5-2.5 m<sup>2</sup>/L (60-100 ft<sup>2</sup>/gal) (nominal) – includes both substrates.

**Optional Wet-mating Method:** 2.5 m<sup>2</sup>/L (100 ft<sup>2</sup>/gal) (nominal)

**PHYSICAL PROPERTIES:**

<u>Property</u>	<u>Minimum Performance</u>
Base:	Latex
Color:	White (when first applied) Translucent (when water evaporates)
Solids:	49% (min)
Weight:	8.3 lb/gal (1.0 kg/L) (nominal)
Specific Gravity:	1.0 (nominal)

**SHELF LIFE:**

- Shelf life of one year can be expected if stored in original sealed containers at temperatures between 60 °F (16 °C) and 80 °F (27 °C). If exposed to lower temperatures, restore to room temperature prior to use.
- Shelf life will be shortened if exposed to elevated temperatures.

**STORAGE:**

- Store in original unopened can, at temperatures between 60 °F (16 °C) and 80 °F (27 °C) until ready for use.
- Do not allow to freeze.
- Rotate stock to ensure stored material will not go beyond the shelf life of one year.

**PRECAUTIONARY INFORMATION:**

- Review Material Safety Data Sheet prior to use.
- Keep out of reach of children.
- Thinning is not permitted and will affect the adhesive performance.
- Do not use for splices
- Stir thoroughly before and during use.
- Keep container closed when not in use.
- Use only in well ventilated areas.
- For professional use only.
- Recommended cleaner is water (while adhesive is fluid).
- Use only when temperatures will not fall below freezing at any time 48 hours after mating.

**LEED INFORMATION:**

Post Consumer Recycled Content:	0%
Post Industrial Recycled Content:	0%
Manufacturing Location:	Greenville, SC
V.O.C. Content:	17 g/L



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