**Water Based Bonding Adhesive-P**

**ITEM NUMBER:** W563587038

**TIS # 816**

**Description:**
Firestone Water Based Bonding Adhesive P is a contact adhesive designed for bonding RubberGard™ EPDM, UltraPly™ TPO, or FormFlash™ membrane products to acceptable substrates. Water Based Bonding Adhesive P is an alternative to Firestone solvent based bonding adhesives. Consult the appropriate Firestone Code Approval Guide for specific FM and UL rated assemblies.

**Method of Application:**
1. Substrates must be brushed clean, and be smooth, dry, and free of sharp edges, loose and foreign materials, oil, grease and other contaminants.
2. Ambient and substrate temperatures must be at minimum 40 °F (4 °C) and rising.
3. Do not attempt to use Water Based Bonding Adhesive P when there is a possibility of freezing temperatures within 48 hours after application.
4. Substrates prone to high moisture content (concrete, cellular concrete, brick, concrete block, stone, etc.) must be completely dry prior to application of Water Based Bonding Adhesive P.
5. Stir the adhesive thoroughly before and during use.
6. Simultaneously apply Water Based Bonding Adhesive P to both the underside sheet and the substrate to allow approximately the same drying time.
7. Use a solvent resistant paint roller and roll the adhesive on both mating surfaces evenly to avoid globs and puddles of adhesive.
8. Water Based Bonding Adhesive P may also be spray-applied, followed by back-rolling to ensure 100% coverage of the bonding adhesive.
9. Take care not to apply bonding adhesive over an area that will later be spliced or seamed to another sheet or flashing.
10. Allow the bonding adhesive to flash off until tacky. Touch the bonding adhesive surface with a clean, dry finger and push forward to be certain the adhesive does not stick or string and to ensure that the adhesive is ready throughout its thickness. If either motion exposes wet or stringy adhesive when the finger is lifted, then it is not ready for mating.
11. Water Based Bonding Adhesive P will change from a pink color to clear colorless as the carrier evaporates indicating mating readiness. Flash-off time will vary depending on substrate temperatures and ambient air conditions.
12. Flash-off times differ and are significantly longer than solvent based adhesives particularly when temperatures are cool, humidity is high, or in shaded areas, etc.
13. When the bonding adhesive is ready to be mated, start at the fold and roll the previously coated portion of the sheet into the coated substrate slowly and evenly to minimize wrinkles. To ensure proper adhesion, compress the bonded portion of the sheet to the substrate with a stiff push broom or heavy roller.

**Special Application for TPO Vertical Flashings:**
For bonding UltraPly TPO membranes to porous vertical substrates (concrete, brick, concrete block), a light coating (“prime coat”) of Water Based Bonding Adhesive P is required.
1. The prime coat may be applied as early as a day ahead of vertical bonding, provided the prime coat does not become contaminated.
2. The prime coat shall be smooth and uniform, and must be dry (verified by translucent color) before proceeding with application of Water Based Bonding Adhesive P.

**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.
- For ultimate results, rotate stock to ensure stored material will not go beyond the shelf life of one year.
- Shelf life of one (1) year can be expected when stored in original sealed container at temperatures between 60 °F (16 °C) and 80 °F (27 °C) until ready for use.
- Shelf life will be shortened if exposed to elevated temperatures. If exposed to lower temperatures, restore to room temperature prior to use.

**Precautions:**
- Review Material Safety Data Sheet prior to use.
- Use only when temperatures will not fall below freezing at any time 48 hours after mating.
- Do not use for UltraPly TPO XR membrane.
- Do not use for splicing.
- Thinning is not permitted and will affect the adhesive performance.
Avoid prolonged contact with eyes and skin.
Avoid prolonged or repeated breathing of vapors.
Do not take internally.
Cover container tightly when not in use.
Use only in well ventilated areas.
While adhesive is fluid, recommended cleaner is water.

**Compliance:**
- Post Consumer Recycled Content: 0%
- Pre Consumer Recycled Content: 0%
- Manufacturing Location: Greenville, SC

**Packaging:**
- **Pail:** 5 Gallon (18.9 L)
- **Coverage:** 100-120 ft² per gallon (2.5-2.9 m² per liter) (nominal) both surfaces (roller application).

*Note: Water Based Bonding Adhesive P may be spray applied using conventional spray equipment used to apply Firestone’s Solvent-Based Bonding Adhesive (BA-2004 T).*

Some surfaces are more uneven and porous and may result in a lower coverage rate; while smooth, less porous substrates may result in higher coverage rates.
Coverage rates are based on roller application to both mating surfaces. When sprayed and backed-rolled, the rate may be slightly higher than when rolled only.
All insulation joints, gaps in substrates greater than ¼” (6.3 mm) shall be filled with acceptable filler.

**Physical Properties:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Minimum Performance</th>
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<tbody>
<tr>
<td>Base Polymer</td>
<td>Acrylic</td>
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<tr>
<td>Solvent Carrier</td>
<td>Primarily water</td>
</tr>
<tr>
<td>Color</td>
<td>Pink, Changes to clear when ready to mate</td>
</tr>
<tr>
<td>Brookfield Viscosity</td>
<td>16,000 ± 3,000 CPS</td>
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<tr>
<td>Weight/Gallon</td>
<td>8.345-9.170 lb/gal</td>
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<tr>
<td>Specific Gravity</td>
<td>1.05 ± 0.05</td>
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<tr>
<td>Percent Solids</td>
<td>57% Minimum</td>
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<tr>
<td>Field Dispensing</td>
<td>Power Sprayable, Power Rollable, Drop Spreadable, Dip &amp; Roll with rollers</td>
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<tr>
<td>VOC Content</td>
<td>Less than 250 grams/liter</td>
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</table>

**Approved Power Equipment:**

**Garlock 2120 Commander Sprayer**

Graco Spray Tips: .025 to .035 diameter hose, 600 psi (6 MPa) operating pressure

**Garlock Twin Gun Airless Sprayer**

600 psi (6 MPa) operating pressure

**Graco Spray Equipment:**

P57LSS (220cc Stainless Steel Dura-Flo™ & Xtreme® pneumatic pump with 6500cc NXT air motor w/Data Track, 2” (51 mm) male npt to ½” (13 mm) female npt elbow, Xtreme-Duty high pressure hose, 3/8” (9.5 mm) x 50’ (15 m), 7250 psi (50 MPa) operating pressure. XTR-7 applicator (manual gun) with XHD tip guard with tips, sizes 417-525

Please Contact your Firestone Technical Coordinator at 1-800-428-4511 for further information.

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