

TECHNICAL INFORMATION SHEET

Water Based Bonding Adhesive P

Item Description

5 Gallon (18.9 L)

Item Number

W563587038



Product Information

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 clean, 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 dry until tacky. Touch the bonding adhesive surface in heavier areas with a clean, dry finger and push forward, then lift finger 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. Evaporation time will vary depending on substrate temperatures and ambient air conditions.
12. Evaporation 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 membrane 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 Vertical Flashings:

For bonding membranes to porous vertical substrates (concrete, brick, concrete block, etc), a light coating ("prime coat") of Water Based Bonding Adhesive P is required. The prime coat must be dry before proceeding with application of the final coat of Water Based Bonding Adhesive P.

TECHNICAL INFORMATION SHEET

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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 Water based Bonding Adhesive P to freeze.
- For ultimate results, rotate stock to ensure stored material will not go beyond the shelf life of one year.
- Shelf life will be shortened if exposed to elevated temperatures. If exposed to lower temperatures, restore to room temperature prior to use.

Shelf Life:

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.

Coverage Rate:

- 100-120 ft² per gallon (2.5-2.9 m² per liter) (nominal) coating both surfaces (roller application), depending on substrate.
- *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 back-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.

Clean-Up:

While adhesive is fluid, recommended cleaner is water.

Precautions:

- Review 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.

LEED® Information:

Post-Consumer Recycled Content: 0%
Post Industrial Recycled Content: 0%
Manufacturing Location: Greenville, SC
*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



TECHNICAL INFORMATION SHEET

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Typical Properties	
Property	Value
Base	Acrylic
Color	Pink, Changes to Clear when Ready to Mate
Solvents	Primarily Water
Solids	57% Minimum
Viscosity	16,000 ± 3,000 CPS
Weight / Gallon	8.345 – 9.170 lb/gal (1000 – 1099 g/l)
Specific Gravity	1.05 ± 0.05
VOC Content	Less than 250 g/l
Field Dispensing	Power Sprayer, Power Roller, Drop Spreader, Dip and Roll

Packaging Data	
Property	Value
Pail	5 gal (18.9 L)
Weight	Appx 41 lb (18.6 kg)
Units per Pallet	45 – 5 gal pails

Approved Power Application Equipment:

Garlock 25ST Roller Boss Power Roller

4 hp Honda Engine, 4 CFM Compressor, 25 gal pressurized supply tank (20 gal for material; 60-80 psi), up to 100 psi rating, 2 – ¾" (19 mm) x 30' supply hoses with swivels, 2 – 18" (457 mm) roller head assemblies



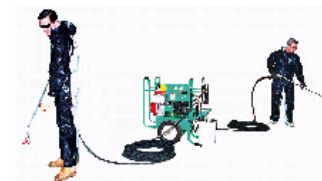
Garlock 2120 Commander Sprayer

18 hp Kohler Engine, 4500 psi Rating, 5 gallon per minute flow, 1200 psi pressure (minimum), Pump Displacement 45:1, GPM Rating: up to 5 GPM, ½" (13 mm) x 100' (30.5 m) hose, 2" (51 mm) intake pipe with screen, 5 or 55 gal drum containers, Graco Spray Tips: .023 to .031 diameter hose



Garlock Twin Gun Airless Sprayer

6.5 hp Honda Engine, 3000 psi Rating, Pump Displacement 30:1, GPM Rating: up to 1 gpm, Up to 400' (122 m) of single ½" (13 mm) diameter hose, Up to 200' (61 m) of dual ½" (13 mm) diameter hose, ¾" (19 mm) intake pipe with screen, 5 or 55 gal drum containers, Bulk tank containers, Graco Spray Tip: .019" to .025" (.48 mm to .64 mm) diameter hose (1850 psi operating pressure)



Graco Spray Equipment

P70EC4-70 – 70:1 Xtreme Sprayer Package w/Heavy Duty car, Hopper package, w/NXT motor and Data Track, Xtreme-Duty high pressure hose, ⅜" (9.5 mm) x 50' (15.2 m) 7250 psi, with ¼" (6.4 mm) x 6' (1.8 m) whip hose, XTR-7 applicator with XHD821-825 tip



Please contact Firestone Technical Services Department at 1-800-428-4511 for further information.

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