

# TPA Single Ply Bonding Adhesive

## An Elastomeric Adhesive used with the TPA FB (Fleece Backed) Single Ply Membrane

**Composition:** TPA Single Ply Bonding Adhesive is an elastomeric, asbestos free solvent based adhesive.

**Basic Use:** TPA Single Ply Bonding Adhesive is used to adhere TPA FB Fleece Backed Single Ply Membrane and flashings to approved substrates.

**Limitations:**

- Do not apply when ambient or material temperature is below 40°F (4°C).
- Not for use over expanded polystyrene (EPS) or EPS Composite insulation installed in any configuration unless EPS is encapsulated within lightweight insulating cellular concrete.

**Grade:** Roller/brush, solvent resistant

**Mixing:** Mix thoroughly before use.

**Clean Up:** Toluene

**Packaging:** Available in 5 gallon (19 L) containers.

**Storage Life:** One year when stored indoors in unopened containers at temperatures between 60°F and 80°F.

**General Application Data:** Roof replacement usually involves more complexities than new construction roofing. Such contingencies as rusted or deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions are often encountered.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based upon your roofs conditions.

**Structural Deck:** Must be properly designed and structurally sound.

**Drainage:** Ponding conditions are unacceptable and will adversely affect the performance of any roofing system. Where positive drainage does not exist, water removal from roof surface must be facilitated by lowering drains, and/or installing additional drains or tapered insulation, or an approved lightweight insulating concrete slope system.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be closed in that day. Use of Fas-n-Free Adhesive for solvent free, fastener free insulation attachment is the preferred method of securement unless otherwise specified.

**Approved Insulation:**

Type	Minimum Thickness	Face
Wood Fiber	1/2" (12 mm)	Coated
Fiber glass	15/16" (24 mm)	Coated/Paper
Polyisocyanurate	1" (25 mm)	Black organic/ Glass
Dens-Deck	1/4" (6 mm)	Glass

**Installation Procedures:** According to job specifications, prepare the surface to be covered by:

- Replace areas of wet insulation and deteriorated deck/wood components.
- Install roof insulation or base sheet.

Surfaces to receive TPA Single Ply Bonding Adhesive must be clean, dry, and free from oil, grease, or other contaminants.

Plan placement of TPA FB roof system to ensure that water will flow over or along, but not against membrane laps and side laps.

Mix TPA Single Ply Bonding Adhesive thoroughly before use.

**Application to horizontal surfaces:** Apply TPA Single Ply Bonding Adhesive to the substrate in full coverage and allow adhesive to become tacky before rolling the TPA FB Single Ply Membrane into place. Do not allow the TPA Single Ply Bonding Adhesive to fully dry prior to rolling membrane into adhesive. Broom the membrane into the adhesive to remove wrinkles and assure positive contact with the substrate. Minimize foot traffic on freshly applied TPA FB until adhesive is fully cured.

**Application to vertical surfaces:** Position TPA / TPA FB Flashing membrane in intended location and fold back. Apply TPA Single Ply Bonding Adhesive in full coverage to both the vertical substrate and to the back side of the flashing membrane. Allow adhesive to dry to the touch (Until it does not transfer to a dry finger touch- approximately 20 to 40 minutes). Place the flashing membrane into the adhesive and pressure roll to assure positive contact.

Do not allow TPA Single Ply Bonding Adhesive to contaminate TPA membrane and flashing lap areas. Remove adhesive from lap areas. Heat weld overlap seams of TPA flashing and field membrane.

**Coverage:** Will vary based on substrate porosity. Typical coverage rate is 80 to 100 square feet per gallon (2.0 to 2.5 square meters per liter) per surface. For flashing application, net coverage will be 50 to 60 square feet per gallon when applying to both surfaces.

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**Precautions:** Use TPA Single Ply Bonding Adhesive with adequate ventilation. Users must read container labels and Material Safety Data Sheet for health and safety precautions prior to use.

**Availability and Cost:** Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

**Maintenance:** Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

**Guarantee/Warranty:** Tremco, Inc. warrants TPA Single Ply Bonding Adhesive to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that is proved to be defective when applied in accordance with our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**Technical Services:** Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service staff.

**Statement of Policy and Responsibility:** Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

## Physical Performance Characteristics

### TPA Single Ply Bonding Adhesive

Property	Typical Value	Test Method
Viscosity @ 25°C (77°F)	2.5 Pa·s (2,500cps)	ASTM D 183
Density	863 kg/m <sup>3</sup> (7.3 lbs./gal)	ASTM D 147
Percent Solids	26.5%	ASTM D 316
VOC	612 g/L	ASTM D 164
Color	amber/yellow	



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