



UltraPly™ Bonding Adhesive



1. Description

Firestone UltraPly™ Bonding Adhesive is a solvent-based contact adhesive designed for bonding Firestone UltraPly TPO roofing membranes and Firestone UltraPly TPO Unsupported Flashings to approved insulation boards, wood, masonry, metal and other acceptable substrates.

2. Preparation

Surfaces that will receive UltraPly Bonding Adhesive must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants. Clean all mating surfaces first with a broom. 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 the UltraPly 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 the UltraPly Bonding Adhesive evenly avoiding areas of accumulation. Apply the Bonding Adhesive with a solvent resistant paint roller, and roll the adhesive evenly onto the mating surfaces. When applying Bonding Adhesive, ensure complete uniform coverage of both surfaces to be adhered. Care must be taken not to apply Bonding Adhesive over areas to be welded.

The UltraPly Bonding Adhesive can be dispensed by means of a SuperSpreader in order to achieve a more uniform coverage and obtain higher coverage rates. Let the adhesive dry prior to mating both surfaces. Drying times depend on weather conditions. Do a touch-push test to verify dryness of the adhesive, as described in the Firestone installation instructions. Make sure to roll the membrane well after bonding so as to ensure good adhesion.

4. Coverage

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

- Manual application: between 5 and 7 m² per gallon (two sides).
- SuperSpreader: between 7 and 9 m² per gallon (two sides).

Some insulation surfaces are more uneven and porous and will result in a lower coverage rate while smooth non-porous substrates will result in higher coverage rates. Very porous substrates (rough wood, concrete block) may require two coats of Bonding Adhesive, to ensure proper adhesion. This can be determined by testing a small area. Check by adhering a small piece of UltraPly TPO membrane to the porous substrate and verify its bonding strength.



5. Characteristics

Physical

- Excellent resistance to aging
- Good resistance to heat, cold
- Excellent green tack time

Technical

• Base	Blend of Neoprene and SBR rubbers
• Color	Yellow
• Solvents	Acetone, hexane, toluene and xylene
• Viscosity	3300 cps - 3800 cps
• Specific gravity	0.7909 – 0.8868
• V.O.C. Content	633 g/l

6. Packaging / Storage / Shelf life

Packaging	18.9 l (5 gallon) pail
Part number	W56TPO3005

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

Shelf life: 12 months if stored in above-mentioned conditions. Shelf life need to be considered as a guideline that may vary in function of storage conditions. The roofing contractor has to verify always the quality and workability of the product prior to use. The adhesive needs to present always after mixing a uniform color without sediment of solids on the bottom of the pail.

7. Precautions

Consult Material Safety Data Sheets.