



ASTEC #2000 System
Sprayed Polyurethane Roof

1/27/04

**ALL GENERAL REQUIREMENTS
AND ARCHITECTURAL DETAILS ARE
PART OF THIS SPECIFICATION**

- 1. FINISHED SURFACES** of applied spray foam shall be of reasonable smoothness, free of ridges, bumps and depressions to facilitate drainage. Foam shall be in an acceptable condition to receive coatings.
- 2. ASTEC COATINGS** shall be applied only after foam has cured sufficiently according to the foam manufacture's specifications.
- 3. PRESSURE WASH** to achieve a clean, dry surface free of all dust, dirt, oil and other contaminants so as to have a sound, clean and dry surface prepared for subsequent coating operations. Mold and mildew shall be treated with a 50% mixture of bleach and water. Some surfaces may require multiple passes of pressure washing to ensure adhesion of the ASTEC Coating System.
- 4. Apply ASTEC #4000 Surface Conditioner** at a rate of 200 sq/ft per cut gallon over entire areas of previously coated, painted, factory applied systems, or surfaces with silver aluminum coatings.
- 5. DRY SURFACE** means that all water shall be removed from the surface at least 2 hours prior to application of the **ASTEC** system. Additional vacuuming and/or power blowing will help remove water and moisture from roof surface.
- 6. EXISTING WEATHERED OR LOOSE URETHANE** shall be removed from the substrate and that section shall be refoamed to provide a sound surface.
- 7. REPAIR FOAM SURFACE** breaks or cracks with urethane caulking compound or urethane foam prior to application of the ASTEC system.
- 8. INSTALL AND/OR REPAIR** any drains, protrusions, vents, expansion control joints and flashing areas as required. If any rusted metal is present, after proper surface preparation, follow with a minimum two coat application of anticorrosive **ASTEC B-16-71** applied to the roof surface at a minimum coverage rate of 300 sf/gal to result in an average of 2-4 mils DFT.
- 9. CAULK** all exposed cracks and seams with **ASTEC #2001 Acrylic Latex Caulk**, or other 100% acrylic or urethane caulking. Optionally, in gaps and cracks 1/8" or less in width, brush in **ASTEC #2000 Flash Grade Waterproof Membrane**.
- 10. WATERPROOF** caulked seams with an 8" wide wet coat of **ASTEC #2000 Flash Grade Waterproof Membrane** centered on the bead applied at an average rate of 82sf/gal.
- 11. REINFORCE** all penetrations, joints, flashing, and repair areas with 4" wide polyester cloth embedded into 8" wide wet coat of **ASTEC #2000 Flash Grade Waterproof Membrane**. In all cases apply to cloth with a brush or roller to avoid wrinkles or gaps between the material and the surface. The cloth may be cut and overlaid. For a faster dry-in, **BBT** (butyl backed tape), is an alternative to the first coat of **ASTEC #2000 Flash Grade Waterproof Membrane** and polycloth. In either case all treated areas receive a second coat of **ASTEC #2000 Flash Grade Waterproof Membrane** overlapping 2" each side at an average rate of 82sf/gal per coat (allow 2-4 hours drying time between applications)(See Note 1)
- 12. INSPECT SURFACE AREA** again to be sure it is dry and free of all moisture, dirt, dust, and debris before applying each of the remaining coatings.
- 13. A TWO COAT APPLICATION** of **ASTEC #2000 Base Coat** shall be applied at a coverage rate of $\frac{3}{4}$ gallon per 100sf per coat with the first coat being back rolled when sprayed. The first coat



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of **ASTEC #2000 Base Coat** shall be allowed to dry 2-4 hours before spraying second coat. The surface of the cured **ASTEC #2000 Base Coat** shall be free of all moisture, dirt, dust, and debris before additional coats are applied.

14. THE ASTEC #2000 FINISH COAT shall be uniformly applied at a rate of 1½ gallon per 100sf.

15. The ASTEC #2000 COATING SYSTEM will result in a minimum 3 gallons per 100sf system resulting in no less than 30 mils DFT.

16. UPON FINAL COMPLETION "foot traffic" pads will be required at point of entry, (fixed ladder or other roof access points) in any areas around HVAC units, and in all heavy traffic areas.

NOTES:

- 1. ASTEC WPM #10**, applied at a rate of 25 sq/ft per gallon (40 mils DFT) is an approved equal and will be accepted as an alternative to using **ASTEC #2000 Flash Grade Waterproof Membrane** and polyester cloth on seams. **ASTEC #101 Accelerator** may be added to **WPM #10** to enhance cure time. *(Mixing ratio is critical. See appropriate product specifications for proper use)*
- 2. Not Responsible for the bond of the pre-existing polyurethane foam system to the existing roof deck.**