



ASTEC #2000 System
Smooth Surface Built-Up Roofs

1/26/04

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

1. **DEFINE WITH INFRARED SCANNING** or other moisture detection equipment any excessive moisture under roofing materials. Moisture or wet insulation that is identified must be allowed to dry out, or be removed and replaced as needed prior to the application of the **ASTEC #2000 SYSTEM**.

2. **PRESSURE WASH** to achieve a clean, dry surface free of oil, dirt, residues, oxidation, and any other contaminants. 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.

3. **Apply ASTEC #4000 Surface Conditioner** at a rate of 200 sq/ft per cut gallon over entire areas of previously coated, painted, factory applied color, or surfaces with silver aluminum coatings.

4. **APPLY ASTEC #2000 ASPHALT PRIMER**, providing the roof has not been previously coated or painted, to the entire surface at a coverage rate of 200 sq/ft per gallon obtaining a dry film thickness of 3-4 mils.

5. **DRY SURFACE** means that all water shall be removed from the roof at least 2 hours prior to application of the **ASTEC** system. Additionally, vacuuming and/or power blowing will help remove water and moisture from the roof surface.

6. **REPAIR** all deteriorated or damaged seams, drains, protrusions, vents, flashing areas, and weak or damaged substrate as required. If any rusted metal is present, after proper surface preparation, give a minimum two-coat application of anti-corrosive **ASTEC B-16-71 Metal Primer** at a minimum coverage rate of 300 sf/gal per coat to result in an average of 2-4 mils DFT. Apply **ASTEC**

#2000 Asphalt Primer at a coverage rate of 200 sq/ft per gallon to any repair area where new asphalt has been applied.

7. **“ALLIGATORED” SURFACES**, where there is cracking and surface separation of the existing roofing materials, surface shall be back filled and coated with multiple layers of **ASTEC #2000 Patching Compound** in order to seal and build the area up enough that a smooth surface is attained.

8. **REPAIRING BLISTERING AREAS.** All blisters or delaminated roofing must be repaired by cutting the blistered area in an “X” pattern where moisture and/or contaminants can be removed and properly cleaned. With material pulled back, apply **ASTEC #2000 Flash Grade Waterproof Membrane** 30 to 40 wet mils in the delaminating area. Then fasten “X” down. Once this area has properly dried (approximately 24 hours), using **ASTEC #2000 Flash Grade Waterproof Membrane**, fully cloth and embed over these repair areas using the 3-step flashing system.

1. **ASTEC #2000 Flash Grade Waterproof Membrane @ 82 sf/gal.**
2. Polyester Cloth embedded into first coat.
Let dry 2-4 hours.
3. Apply second coat **ASTEC #2000 Flash Grade Waterproof Membrane** over repaired area @ 82 sf/gal assuring no pin holes exist.

9. **CAULK** all exposed cracks, seams, and termination points with **ASTEC #2000 Patching Compound**. Optionally, in gaps and cracks 1/8" or less in width, brush in **ASTEC #2000 Flash Grade Waterproof Membrane**.

10. **REINFORCE ALL ROOF PENETRATIONS AND REPAIR ALL DAMAGED OVER LAP SEAMS** by reinforcing seams with 4" wide polyester cloth embedded into the 8" wide wet coat of **ASTEC #2000 Flash Grade Waterproof Membrane**. Apply a second coat of **ASTEC #2000**



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Flash Grade Waterproof Membrane overlapping 2" each side at an average rate of 82 sf/gal. (Allow 2-4 hours drying time between coats.)

If more than **5%** of the lineal seams are damaged or separating, it is required that all seams be reinforced. (See Note 1)

11. 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 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 any pinholes, all moisture, dirt, dust, and debris before additional coats are applied.

12. THE ASTEC #2000 FINISH COAT shall be uniformly applied at a rate of $1\frac{1}{2}$ gallon per 100sf.

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

14. 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 all heavy traffic areas.

NOTE:

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*)