Application Specification # **AC-2007-00**

ASTEC #2000 System
Cap Sheet Roofs

1/28/04

ALL GENERAL REQUIREMENTS
AND ARCHITECTURAL DETAILS ARE
PART OF THIS SPECIFICATION

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

2. 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.

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 systems, or surfaces with silver aluminum coatings. This is a mandatory step as all original cap sheet roofs have loose gravel embedded in the top side of the asphalt material.

3. 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 decrease drying time.

4. REPAIR any 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.

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

6. REPAIRING BLISTERING AREAS. All blisters or delaminated roofing must be repaired by cutting blistered area in an "X" pattern where moisture and/or contaminates 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 nail "X" down. Once this area has properly dried (approximately 24 hours), using **ASTEC #2000 Flash Grade Waterproof Membrane,** fully cloth and embedded 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 ensuring no pin-holing in repaired area.

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

8. 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.

9. 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 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 ¾ 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 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 1½ gallon per 100sf.

13. The ASTEC #2000 COATING 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, or the **ICC mLHC** system applied at ¼", coated with **ASTEC #2000 Finish Coat** at a rate of 1½ gallons per 100 sq/ft will be required at point of entry (fixed ladder or other roof access points) and in any areas around HVAC units.

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*)

◆ Owner and/or Contractor are required to provide a sound surface for the ASTEC Coating System.

◆◆ ICC makes no determination nor assumes any responsibility for the adhesion or fastening system of the existing Roofing System whether adhered or mechanically attached.

◆◆◆ Patch & Seam repair Non Adhered Systems follow manufacture's recommended procedures (Contact ICC Technical Services)