Application Specification # **AC-222-9E**

ASTEC #900 System
EPDM Membrane Roofs
Having Positive Slope and Drainage

2/17/04

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 or wet insulation that is identified must be allowed to dry out or be removed and replaced prior to the application of the **ASTEC #900 SYSTEM.**

2. CLEAN SURFACE by carefully removing all dust and dirt. **Apply ASTEC EPDM Rinseable Primer** at approx. 500 sq/ft per gallon to the entire surface area. Ensure that all areas of the surface are wet with primer. Allow the primer to stand on the surface for minimum 4 hours (**Important:** See Product Specification) before proceeding to power wash.

3. PRESSURE WASH to achieve a clean, dry surface free of primer and any other contaminants. One additional rinsing is required to assure removal of any residues. 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 color, or surfaces with silver aluminum coatings.

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 roof surface.

6. 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 <u>two-coat application</u> of anti-corrosive **ASTEC B-16-71 Metal Primer** at a minimum coverage rate of <u>300 sf/gal per coat</u> to result in an average of 2-4 mils DFT.

7. REPAIRING BLISTERING AREAS.

a. **Fully Adhered Systems.** 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 WPM #9 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 WPM #9 Waterproof Membrane** fully cloth and embedded over these repair areas using the 3-step flashing system.

b. **Non Adhered Systems** (loose laid). Follow EPDM manufactures recommended specification procedure for EPDM repair using **ASTEC WPM #9 Waterproof Membrane. Apply** 6” wide polyester cloth with 12” wide application of **ASTEC WPM #9 Waterproof Membrane** over the repaired lap seams using the 3-step flashing system.

1. **ASTEC WPM #9 Waterproof Membrane** @ 82 sf/gal applied 12” wide.
2. 6” Polyester Cloth embedded into first coat. Let dry 2-4 hours.
3. 12” wide apply second coat **ASTEC WPM #9 Waterproof Membrane** over repaired area @ 82 sf/gal assuring no pin-holing in repaired area.

8. CAULK all exposed cracks and seams and termination points with **ASTEC #2000 Patching Compound.** Optionally, in gaps and cracks 1/8" or less in width, brush in **ASTEC #900 Waterproof Membrane.**

9. WATERPROOF caulked seams with an 8” wide wet coat of **ASTEC WPM #9 Waterproof Membrane** centered on the bead applied at an average rate of 82sf/gal.

9. REINFORCE all seams, flashing, and repair areas with 4" wide polyester cloth embedded into 8" wide wet coat of **ASTEC WPM #9 Waterproof Membrane.** In all cases apply 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 WPM #9 Waterproof Membrane** and polycloth. In either case all treated areas receive a second coat of **ASTEC WPM #9 Waterproof Membrane** overlapping 2" each side at an average rate of 82sf/gal per coat (allow 1-2 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.)

10. INSPECT SURFACE AREA to be sure it is dry and free of all moisture, dirt, dust, and debris before applying each of the remaining coatings.

11. APPLY ASTEC WPM #9 COATING over the entire roof surface at an average coverage rate of 82 sf/gal. A brush or medium nap industrial roller is the recommended method of applying this coat in order to insure proper penetration of the coating into the surface.

12. APPLY A SECOND COAT OF WPM #9 over the entire roof surface at an average coverage rate of 82 sf/gal. Use airless spray equipment that delivers at least two gallons/minute at no less than 2000 PSI for proper atomization. Using a carbide or tungsten steel reversible tip ranging in size from .031 to .035 is recommended.

13. ALLOW WPM #9 COATS TO DRY from 4-8 hours of full sun. Once dry, inspect surface for continuous, unbroken, dry film seal. Seal any irregularities or breaks in surface integrity with **WPM #9 B&R**.

14. APPLY FIRST COAT OF ASTEC #900 CERAMIC over the entire roof surface at an average coverage rate of 148sf/gal to lower substrate surface temperature, improve the rate of curing and the quality of the finished appearance

15. APPLY ASTEC #900 CERAMIC FINISH COAT over the entire roof surface at an average rate of 148sf/gal, resulting in a final covering of no less than twelve (12) mils DFT (equal to a combined minimum coverage rate of 74sf/gal). Over seams and repair areas the final specification requirements will be an average of 45 mils DFT.

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 WPM #9** 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. Owner and/or Contractor are required to provide a sound surface for the ASTEC Coating System.

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

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