



Application Specification # AC-812-9T

ASTEC #900 System Concrete Deck Roof Totally Reinforced

2/17/04

ALL GENERAL REQUIREMENTS AND ARCHITECTURAL DETAILS ARE PART OF THIS SPECIFICATION

1. **PRESSURE WASH** or scrub surface thoroughly with TSP or equivalent to achieve a clean surface free of dirt, oil, residues, and other contaminants and rinse. Glossy surfaces must be sanded. Areas of chipping, flaking, or peeling paint shall be made sound by additional scraping and sanding as necessary. Treat mildew areas with bleach.
2. **CONCRETE SURFACES MUST BE DRY.** NEW CONCRETE shall be properly water cured, at least 28 days old and surface must be dry. All concrete deck surfaces must pass a four hour rubber mat test for dryness. The mat will be taped on all four sides to the deck for four hours, and no condensation shall appear on the underside of the mat to pass.
3. **INSTALL** all expansion control joints, protrusions, vents and/or flashings.
4. **FILL** all small routed cracks, seams, and indentations under 1/16" with **ASTEC WPM #9 BRUSH & ROLL**, or grouted with polymerized grouting, and struck smooth.
5. **CRACKS** exceeding 1/16" wide shall be saw cut or routed. Caulk all routed cracks and seams with ASTEC #2001 Acrylic Latex Caulk, or other 100% acrylic or urethane caulking. Vacuum or power blow all dust, dirt, or other contaminants before continuing.
6. **PRIME** new concrete surfaces with **ASTEC CMCE Masonry Primer** after surfaces are cleaned and dry, including all grouting and caulking which minimally need to be dried to the touch (1-2 hours). For proper penetration **CMCE** should be cut 1 to 1 with water. It may be applied by brush, roller or spray. For wide area coverage use airless spray

equipment with carbide or tungsten steel reversible tips ranging in size from .017 to .021. Usually one coat of 1 mil average is sufficient which equates to 250 sf per cut gallon.

7. **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 to provide proper adhesion of the subsequent coatings.
8. **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.
9. **AFTER CAULK** has skinned over, **WPM #9** shall be applied at a minimum rate of 66 sf/gal to the entire roof surface. Before this first coat has skinned over, a layer 36" wide polyester cloth shall be embedded in the wet **WPM #9**. Each strip of cloth shall overlap the last one by a minimum of 2". A roller shall be used to assist in this embedding process, making sure the cloth smoothly covers the roof leaving no bubbles. Allow to dry 4-8 hours between coats.
10. **A SECOND** application of **WPM #9** at a minimum rate of (66 sf/gal) is applied over the polyester cloth to the entire roof, again making sure there are no wrinkles or bubbles.
11. **THIS FULLY** cured multiple coat application of **WPM #9** must be applied in a continuous unbroken (closed seal) film of a DFT of no less than 30 mils over all areas of the roofing surface. (This may require up to 4 sf/gal on an uneven or rough surface.).
12. **SURFACE** of a cured **ASTEC WPM #9** membrane must be free of all moisture, dirt, dust and debris before additional coats are applied.



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13. ASTEC WPM #9 shall be allowed to dry 4-8 hours, after which an inspection shall take place repairing any defects in the **WPM #9**.

14. APPLY ASTEC #900 CERAMIC FIRST COAT 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.