



**ASTEC #900 System
Concrete Deck Roof**

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 clean, dry and free of dust or dirt. Allow 1-2 hours for **CMCE** or **ASTEC #4000** to dry before continuing.
9. **REINFORCE** all joints, flashing, and repair areas with 4" wide polyester cloth embedded into 8" wide wet coat of **WPM #9 B&R**. 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 **WPM #9 B&R** and **polycloth**. In either case all treated areas receive a second coat of **WPM #9 B&R** overlapping 2" each side at an average rate of 82sf/gal per coat (allow 1-2 hours drying time between coats. (See Note 1)
10. **APPLY TWO ASTEC #900 CERAMIC FINISH COATS.** Two ceramic coating applications, each at an average coverage 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.



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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)