

## **975 STRUCTURAL COATING MATERIALS.**

**(REV 7-17-06) (FA 11-13-07) (7-08)**

SECTION 975 (Pages 878-883) is expanded by the following new Article:

### **975-9 Anti-Graffiti Coating Materials.**

**975-9.1 General Requirements:** Anti-graffiti coatings intended for use under this specification shall be of a composition to be capable of preventing the adhesion of graffiti and/or facilitating the removal of graffiti. All anti-graffiti coatings must possess the physical and handling characteristics that are compatible with the requirements of Section 563.

Anti-graffiti coatings shall contain less than [5.0 lb/gal] volatile organic compounds (VOC) as defined by 40 CFR Part 59, Subpart D.

The manufacturer will supply the following additional information:

- a. Cleaning instructions and materials, as applicable. Surfaces must be cleanable with nonproprietary cleaners as defined in ASTM D6578.
- b. Sacrificial Coating Removal instructions, as applicable.
- c. Recommended base coat, as applicable.
- d. Identification of coating system and type, as applicable.
- e. Clear coats must contain a UV degradable color for inspection purposes. UV degradable color must dissipate in a reasonable time period to allow inspection but not detract from visual impact of the structure.

### **975-9.2 Material Tests: Meet the following requirements:**

Additional Laboratory Performance and Tests		
Test	Method	Limits
Cyclic Weather Testing	AASHTO R-31	No blistering, cracking, checking, chalking, or delamination; color change less than 3 Delta E CIE LAB units; Retention of 60° Gloss ratio $\geq 0.80$
Abrasion Resistance	ASTM D968, 1,000 liters of sand	No loss of coating thickness per ASTM D1005
Impact Resistance	ASTM D2794	Minimum of 30 inch-pounds
Graffiti Resistance	ASTM D6578, Use identified marking materials; initial and recleanability; and after exposure initial and recleanability	Cleanability Level 1, 2, or 3.
Sacrificial Coating removability	Per Manufacturer's specifications: 6 months exposure at FDOT test site	Complete removal of material from substrate
MEK Double Rub	ASTM D 5402; 50 rubs	No coating wear through (4 minimum rating)

Additional Laboratory Performance and Tests		
Test	Method	Limits
Fluid Resistance	ASTM D1308; Paint Thinner, Gasoline	No blistering, discoloration, softening or adhesion loss.