

# EXPECTED IMPLEMENTATION JULY 2008

## 975 STRUCTURAL COATING MATERIALS. (REV 7-17-06) (FA 11-13-07) (7-08)

SECTION 975 (of the Supplemental Specifications) 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)   |

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