

# EXPECTED IMPLEMENTATION JULY 2011

## 975 STRUCTURAL COATING MATERIALS. (REV 7-20-10) (FA 11-9-10) (7-11)

SUBARTICLE 975-7.2 (of the Supplemental Specifications) is deleted and the following substituted:

**975-7.2 Performance Requirements:** For laboratory testing, use flat test panels prepared in accordance with AASHTO R-31. Outdoor exposure testing will be performed by the Department. Submit four 4 inch by 8 inch fiber cement test panels, with a mass of 7 to 9 pounds per square foot of surface area to the State Materials Office. Panels will be exposed at the Department's outdoor test site in accordance with ASTM G 7.

Laboratory Testing- Non-Sacrificial		
Property	Test Method	Requirement
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 >= 0.80
Taber Abrasion	ASTM D 4060, CS17, 1,000 g of sand	60 g maximum weight loss
Impact Resistance	ASTM D 2794	Minimum of 30 inch-pounds, 1/2" impact, intrusion
Graffiti Resistance	ASTM D 6578, Use identified marking materials; initial and recleanability; and after exposure initial and recleanability	Cleanability Level 8, 9, or 10.
MEK Double Rub	ASTM D 4752; 50 rubs	No coating wear through (4 minimum rating)
Fluid Resistance	ASTM D 1308- spot; Paint Thinner, Gasoline	No blistering, discoloration, softening or adhesion loss.

Laboratory Testing- Sacrificial		
Property	Test Method	Requirement
Cyclic Weather Testing	AASHTO R-31, no salt fog, 95°F, 0%- 90% Relative Humidity, 500 hours, alternating RH every 100 hours	No melting or disbondment
Outside Testing- Sacrificial		
Property	Test Method	Requirement
Sacrificial Coating removability	Per Manufacturer's specifications: 6 months exposure at FDOT test site	Complete removal of material from substrate