

From: Powell, Jr., Rudy
Sent: Tuesday, July 20, 2010 3:31 PM
To: Toole, Deborah
Cc: Byram, Karen; Smith, Barry
Subject: FW: S975-7 Anti-Graffiti Modification Needed
Attachments: SS9750702 Anit graffiti panels.doc

Please process for 7/11 implementation. There are some formatting issues (I just typed). Paul Vinik is the originator. Consider draft to originator complete with the email below.

Karen and Barry: Any thoughts before Debbie sends to internal review?

From: Vinik, Paul
Sent: Tuesday, July 20, 2010 11:51 AM
To: Powell, Jr., Rudy
Cc: Byram, Karen; Smith, Barry
Subject: RE: S975-7 Anti-Graffiti Modification Needed

Rudy:

I have slightly modified the language and it is attached.

Thanks,
Paul

Tell me and I forget. Teach me and I remember. Involve me and I learn - Benjamin Franklin

Paul Vinik, P.E.
State Chemical Materials Engineer
State Materials Research Park
5007 N.E. 39th Ave.
Gainesville, FL. 32609
352-955-6649 (o)
352-955-6644 (f)
Paul.Vinik@dot.state.fl.us

From: Powell, Jr., Rudy
Sent: Tuesday, July 20, 2010 7:36 AM
To: Vinik, Paul
Cc: Byram, Karen; Smith, Barry

Subject: FW: S975-7 Anti-Graffiti Modification Needed

Paul: Thoughts? Take a look at the attached. Please modify as needed. This changes will be implemented in the July 2011 Workbook.

From: Byram, Karen
Sent: Tuesday, July 13, 2010 9:50 AM
To: Powell, Jr., Rudy
Cc: Vinik, Paul; Smith, Barry; Brautigam, Duane
Subject: S975-7 Anti-Graffiti Modification Needed

Rudy;

Paul and I have been working on the applications for anti-graffiti and identified that in section S975-7 Anti-Graffiti Coating materials, instructions for preparing field test panels and samples to be submitted to the SMO are missing. The language should match or be modeled on S975-6.2.2. Would it be possible to have this for the July 2011 Workbook?

Karen Byram
Product Evaluation Administrator
(850) 414-4353

975 STRUCTURAL COATING SYSTEMS.
(REV 6-11-09) (FA 6-25-09) (1-10)

SECTION 975 (Pages 944–950) is deleted and the following substituted:

SECTION 975
STRUCTURAL COATING MATERIALS

975-7.2 Laboratory Requirements: Use flat test panels prepared in accordance with AASHTO R-31.

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 D4060, CS17, 1,000 g of sand	60 g maximum weight loss
Impact Resistance	ASTM D2794	Minimum of 30 inch-pounds, 1/2” impact, intrusion
Graffiti Resistance	ASTM D6578, 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 D1308- 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 degrees Fahrenheit, 0%-90% Relative Humidity, 500 hours, alternating RH every 100 hours	No melting or disbondment
Sacrificial Coating removability	Per Manufacturer’s specifications: 6 months exposure at FDOT test site <i>(1)</i>	Complete removal of material from substrate

(1) 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. The coating system to be evaluated shall be applied to the ~~P~~test panels by the manufacturer prior to shipment and will be exposed at the Department's outdoor test site in accordance with ASTM G7.



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: October 1, 2010

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9750702 Structural Coating Materials.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

The changes were proposed by Paul Vinik of the State Materials Office to include instructions for preparing field test panels and samples to be submitted to the State Materials Office.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after **October 29, 2010**, may not be considered. Your input is encouraged.

RP/dt
Attachment

STRUCTURAL COATING MATERIALS.
(REV 7-20-10)

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

975-7.2 Laboratory 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 °degrees-Fahrenheit, 0%-90% Relative Humidity, 500 hours, alternating RH every 100 -hours	No melting or disbondment
<i>Outside Testing- Sacrificial</i>		
<i>Property</i>	<i>Test Method</i>	<i>Requirement</i>
Sacrificial Coating removability	Per Manufacturer's specifications: 6 -months exposure at FDOT test site	Complete removal of material from substrate