

# ORIGINATION FORM

## Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date: 5/19/2016

Specification Section: 975

Originator: Mark Conley

Articles/Subarticles: Class 5 Coatings

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Will the proposed revision involve Design Standard Index changes? Yes ☐ No ☒

Roadway Design staff contacted (name):

Structures Design staff contacted (name):

Will the proposed revision involve PPM changes? Yes ☐ No ☒

Roadway Design staff contacted (name):

Will the proposed revision involve CPAM changes? Yes ☐ No ☒

Construction staff contacted (name):

Will the proposed revision involve Pay Item changes? Yes ☐ No ☒

Estimates staff contacted (name):

Will the proposed revision involve SDG changes? Yes ☐ No ☒

Structures staff contacted (name):

Will the proposed revision involve APL changes? Yes ☐ No ☒

Product Evaluation staff contacted (name):

Will the proposed revision involve Material Manual changes? Yes ☐ No ☒

State Materials Office staff contacted (name):

Will this revision necessitate any of the following:

Design Bulletin ☐ Construction Bulletin ☐ Estimates Bulletin ☐ Materials Bulletin ☐

Are all references to external publications current? Yes ☒ No ☐

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Change is needed to clarify the testing requirements.

Summary of the changes:

Clarified that the SMO only needs 1 quart of paint, and that it's the manufacturer's responsibility to submit 4 samples, for independent testing, and the requirements of the panels.

Are these changes applicable to all Department jobs? Yes ☒ No ☐

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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**M E M O R A N D U M**

**DATE:** June 13, 2016

**TO:** Specification Review Distribution List

**FROM:** Dan Hurtado, P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: **9750602 Structural Coating Materials.**

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

This change was proposed by Mark Conley of the State Materials Office (SMO) to modify the language for current Department practice.

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 online at

<http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx> .

Comments received after **July 12, 2016**, may not be considered. Your input is encouraged.

DH/dt  
Attachment

**STRUCTURAL COATING MATERIALS.****(REV 5-25-16)**

SUBARTICLE 975-6.2 is deleted and the following substituted:

**975-6.2 Coating Requirements:** ~~Use~~Prepare four, 4 inch by 8 inch (except as required below) fiber cement test panels with a mass of 7 to 9 pounds per square foot of surface area to perform the laboratory tests. Apply the finish coating to each test panel at a rate of 50, plus or minus, 10 square feet per gallon. Seal the corners of all test panels with a high build epoxy or equivalent to prevent moisture ingress at corners and cut edges. Submit the samples to an independent laboratory for testing. Coating performance shall meet the following requirements:

| Laboratory Testing                   |  |   |
|--------------------------------------|--|---|
| Property                             | Test Method  | Requirement   |
| Resistance to Wind Driven Rain       | ASTM D6904   | No visible water leaks, and if the rear face of the block is damp, the average gain in weight of the three 8"x16"x2" blocks must be less than 0.2 lb. |
| Freeze thaw resistance               | AASHTO R31   | No disbondment  |
| Water Vapor Transmission             | ASTM D1653; Method B, Condition C                        | WVT $\geq$ 10 perms   |
| Abrasion Resistance                  | ASTM D968, 3,000 liters of sand                          | No loss of coating thickness<br>ASTM D6132  |
| Salt Spray (fog) resistance          | ASTM B117, 2,000 hours                                   | No disbondment  |
| Fluorescent UV-Condensation Exposure | ASTM D4587, 2000 hours, 4 hours UV, 4 hours condensation | No blistering (ASTM D714), cracking (visual), or delamination (visual). chalking (ASTM D4214 Method D) rating no less than 8.                         |
| Fungal Resistance                    | ASTM D3273   | Rating of 10, ASTM D3274  |

Submit ~~four fiber cement test panels and~~ a 1 quart wet sample of each component of each coating incorporated in the total system being evaluated ~~to the SMO. Prepare test panels by applying the finished coating at a rate of 50 plus or minus 10 square feet per gallon. In addition, completely seal the corners of all test panels with a high build epoxy or equivalent to prevent moisture ingress at corners and cut edges.~~