

Origination Form

Specifications

Submittal Information			
Name:	Mateo Carvajal	Standard Specification Section:	975
Email:	mateo.carvajal@dot.state.fl.us	Special Provision:	
Date:	2026-05-21T20:28:43Z	Associated Specs:	562

Summary:

The revision adds water-repellent coatings as an allowable Class 5 coating option.

Justification:

The existing language needs to be revised to explicitly allow water-repellent coatings as a Class 5 option. These coatings have shown acceptable performance on Department projects through Technical Special Provisions. Adding this option to the specification will provide clearer guidance and more flexibility for District use.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No
Materials Manual		No

Are changes in line with promoting and making progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

This change supports innovation by allowing an additional coating option that has demonstrated acceptable performance on Department projects and provides greater flexibility in selecting suitable materials.

What financial impact does the change have; project costs, pay item structure, or consultant fees?

N/A

What impact does the change have on production or construction schedules?

N/A

How does this change improve efficiency or quality?

This change improves efficiency by expanding allowable coating options within the specification and reducing the need for project-specific Technical Special Provisions for coatings that have already shown acceptable performance.

Which FDOT offices does the change impact?

State Materials Office, District Maintenance Offices

What is the impact to districts with this change?

Districts will have greater flexibility to select an additional acceptable coating type for Class 5 applications without relying on a project-specific Technical Special Provision.

Does the change shift risk and to who?

N/A

Provide summary and resolution of any outstanding comments from the districts or industry.

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: <https://www.fdot.gov/specifications/default.shtm>

What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

STRUCTURAL COATING MATERIALS
(REV 5-26-26)

ARTICLE 975-6 is deleted and the following substituted:

975-6 Class 5 Applied Finish Coatings.

975-6.1 General: All coatings shall possess physical properties and handling characteristics compatible with the application requirements of Section 400. Unless otherwise specified, the color of the finish coat shall meet FED-STD-595, Table VIII, Shade No. 36622, or No. 36642 for uncoated weathering steel bridges. Upon request, submit a one-quart wet sample of each component of each coating system to the SMO.

~~975-6.2 Coating Requirements: 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 square feet per gallon, 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 requirements in Table 975-5. Upon request, submit a one quart wet sample of each component of each coating system to the SMO.~~ **975-6.2 Textured Finish Coatings:** Submit the samples to an independent laboratory for testing. Textured finish coatings shall meet the requirements in Table 975-5.

975-6.3 Water-Repellent Coatings: Submit the samples to an independent laboratory for testing. Water-Repellent coatings shall meet the requirements in Table 975-5 and shall be of water-based silicone acrylic.

Table 975-5 Class 5 Applied Finish Coatings Performance Requirements		
Laboratory Testing		
Property	Test Method	Acceptance Criteria
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 R 31 Test No. 6	No disbondment
Water Vapor Transmission	ASTM D1653 Method B Condition C	WVT ≥ 10 perms
Abrasion Resistance	ASTM D968, 3,000 L iters of s Sand	No loss of coating thickness per ASTM D6132
Salt Spray (Fog) Resistance	ASTM B117 2,000 hours	No disbondment

Table 975-5
Class 5 Applied Finish Coatings Performance Requirements

Laboratory Testing		
Property	Test Method	Acceptance Criteria
Fluorescent UV-Condensation Exposure	ASTM D4587 -2000 hours -4 hours UV -4 hours eCCondensation	No blistering per (ASTM D714.) ; No cracking (visual) , or delamination. (visual) . eC Chalking rating no less than 8 (per ASTM D4214 Method D) rating no less than 8.
Fungal Resistance	ASTM D3273	Rating of 10 per -ASTM D3274