



Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

June 27, 2025

Abi Domond
Civil Rights Analysis Intern
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section: 975
Proposed Specification: **9750201 Structural Coating Materials**

Dear Ms. Domond:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Adrian Steele to remove references to a device that is no longer manufactured or calibrated.

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email daniel.strickland@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at (850) 414-4130.

Sincerely,

Signature on File

Daniel Strickland, P.E.
State Specifications Engineer

DS/jb

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

STRUCTURAL COATING MATERIALS (REV 5-7-25)

ARTICLE 975-4 is deleted and the following substituted:

975-4 Paint for Galvanized Steel Strain Poles, Mast Arms, Monotube Assemblies, Conventional Light Pole Assemblies, and Aluminum Poles, Pedestals, and Posts.

Paint systems shall meet the color requirements as specified in the Contract Documents. All paint systems shall possess physical properties and handling characteristics that are compatible with the application requirements of Section 649 for galvanized steel and Sections 646 and 715 for aluminum. Materials shall be specifically intended for use over galvanized steel or aluminum, as appropriate. Paint systems shall exhibit no loss of adhesion or total color difference (ΔE^*_{ab}) greater than 8.0 units for five years after final acceptance as specified in 5-11.

~~Cumulative surface area of delamination in excess of 100 square inches will constitute an adhesion failure. Delamination shall be defined as any area of exposed metal surface subsequent to hand tool cleaning in accordance with SSPC-SP2. A ΔE^*_{ab} value exceeding 8.0 units per the International Commission on Illumination $L^*a^*b^*$ 1976 (CIELAB) space and color difference formula, measured in accordance with ASTM D2244, will constitute a color retention failure.~~ Paint systems shall exhibit no ~~loss of adhesion failure or total color difference (ΔE^*_{ab}) greater than 8.0 units~~ **color retention failure** for five years after final acceptance as specified in 5-11. ~~Cumulative surface area of delamination in excess of 100 square inches will constitute an adhesion failure. Delamination shall be defined as any area of exposed metal surface subsequent to hand tool cleaning in accordance with SSPC-SP2. A ΔE^*_{ab} value exceeding 8.0 units per the International Commission on Illumination $L^*a^*b^*$ 1976 (CIELAB) space and color difference formula, measured in accordance with ASTM D2244, will constitute a color retention failure.~~

The Department will measure and enter in the Department's database the CIELAB color chromaticity coordinates for the color of the ~~top coat~~ **topcoat** of sample coupons provided as required by 649-4.3 **"Painting"** ~~using a BYK-Gardner Handicolor colorimeter using a color measurement instrument using with~~ D65 illuminant and 2-degree geometry settings. The Department-measured CIELAB chromaticity coordinates shall define the initial color and will be used for resolution of color retention failures and the resolution of color retention disputes.

SUBARTICLE 975-7.2 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, if applicable. Submit ~~four~~ **seven**, 4 inch by 8 inch fiber cement test panels to the SMO. Panels will be exposed at the Department's outdoor test site in accordance with ASTM G7. Coating performance shall meet the requirements in Table 975-6.

Upon request, submit a one quart wet sample of each component of each coating system to the SMO.

Table 975-6 Anti-Graffiti Coatings Performance Requirements		
Outdoor Exposure Testing – Non-Sacrificial		
Property	Test Method	Acceptance Criteria
Graffiti Resistance (water cleanable)	FM 5-580: 6 months exposure at FDOT test site (2500 psi using pressure washer)	Complete removal of solvent based acrylic, and alkyd based spray paint. No delamination or visual defects.
Laboratory Testing - Sacrificial		
Property	Test Method	Acceptance Criteria
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
Outdoor Exposure Testing - Sacrificial		
Property	Test Method	Acceptance Criteria
Sacrificial Coating removability	FM 5-580: 6 months exposure at FDOT test site (2500 psi using pressure washer)	Complete removal of solvent based acrylic, and alkyd based spray paint from substrate

STRUCTURAL COATING MATERIALS (REV 5-7-25)

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975-4 Paint for Galvanized Steel Strain Poles, Mast Arms, Monotube Assemblies, Conventional Light Pole Assemblies, and Aluminum Poles, Pedestals, and Posts.

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Cumulative surface area of delamination in excess of 100 square inches constitutes an adhesion failure. Delamination shall be defined as any area of exposed metal surface subsequent to hand tool cleaning in accordance with SSPC-SP2. A ΔE^*_{ab} value exceeding 8.0 units per the International Commission on Illumination $L^*a^*b^*$ 1976 (CIELAB) space and color difference formula, measured in accordance with ASTM D2244, constitutes a color retention failure. Paint systems shall exhibit no adhesion failure or color retention failure for five years after final acceptance as specified in 5-11.

The Department will measure and enter in the Department's database the CIELAB color chromaticity coordinates for the color of the topcoat of sample coupons provided as required by 649-4.3 "Painting" using a color measurement instrument with D65 illuminant and 2-degree geometry settings. The Department-measured CIELAB chromaticity coordinates shall define the initial color and will be used for resolution of color retention failures and the resolution of color retention disputes.

SUBARTICLE 975-7.2 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, if applicable. Submit seven, 4 inch by 8 inch fiber cement test panels to the SMO. Panels will be exposed at the Department's outdoor test site in accordance with ASTM G7. Coating performance shall meet the requirements in Table 975-6.

Upon request, submit a one quart wet sample of each component of each coating system to the SMO.

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