



Florida Department of Transportation

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ANANTH PRASAD, P.E.
SECRETARY

December 20, 2011

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section **563**
Proposed Specification: **5630000 Anti-Graffiti Coatings.**

Dear Ms. Gourdine:

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

This change was proposed by Paul Vinik of the State Materials Office to allow for the use of new technologies for consistency with current industry practice and revise the language for formatting and clarity.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

Signature on file

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

RP/dt

Attachment

cc: Calvin Johnson, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

ANTI-GRAFFITI COATINGS.

(REV ~~9-8101112-101222612-11~~)

SECTION 563 (Pages 715 and 716) is deleted and the following substituted:

SECTION 563 ANTI-GRAFFITI COATINGS SYSTEM

563-1 Description.

Apply an anti-graffiti coating ~~system~~ *in accordance with the requirements of this Section* to the areas shown in the ~~p~~Plans. ~~Perform the painting application in accordance with this Section, using materials meeting the requirements of Section 975 and listed on the Department's Qualified Products List (QPL). Use anti-graffiti coatings systems that are recommended for the substrate by the anti-graffiti coating system manufacturer. On concrete substrates, use sacrificial or non-sacrificial anti-graffiti coatings. Do not use water cleanable or sacrificial coatings. On steel structure substrates, use non-sacrificial anti-graffiti coatings only.~~

563-2 Materials.

Use anti-graffiti coating products meeting the requirements of Section 975 that are recommended for the base substrate by the manufacturer and listed on the Department's Qualified Products List (QPL). Do not use ~~water cleanable or sacrificial coatings on steel structures.~~

563-2.3 Application.

563-2.3.1 General: Apply ~~an~~ anti-graffiti coatings ~~s~~ or coating system as specified ~~in the Contract Documents~~ in accordance with *the* manufacturer's *product data sheet* recommendations and as specified herein, when the ambient temperature is between 40° and 90°F, and the ~~substrate~~ surface temperature is between 50° and 85°F and rising.

~~Ensure all concrete has cured a minimum of 30 days before applying anti-graffiti coatings and that no moisture is present when tested in compliance with ASTM D 4263.~~

~~Do not apply coatings when precipitation has occurred within 12 hours prior to starting the application or is expected to occur within 12 hours after of the completion of the application or when the relative humidity is above 88%.~~

563-2.3.2 Protection of Adjacent Surfaces: Consider wind direction, velocity and geographic location as having a major impact on all cleaning and anti-graffiti coating operations. *Use all necessary precautions to prevent cleaning and anti-graffiti coating materials from being dispersed outside the work site.* If conditions are such that material is dispersed to areas where vehicles or other property may be damaged, suspend operations until conditions improve ~~enough to permit and~~ work *can continue* without ~~damage~~ *affecting adjacent property.*

Protect all surfaces not intended to be coated, which are adjacent to, or in close proximity to the surfaces to be coated, during the application of anti-graffiti coating. Clean surfaces that are to be coated, as per *the* manufacturer's ~~recommendation~~ *published technical product data sheet.* ~~Use all necessary precautions to prevent materials from cleaning and anti-graffiti coating operations being dispersed outside the work site.~~

563-23.3 Surface Preparation: *Remove all graffiti from the substrate. Prior to applying any anti-graffiti coatings, P*prepare all surfaces to be coated in accordance with ~~560-15 and~~ *ASTM D 4261 or ASTM D 4258 and* the manufacturer's recommendation ~~published technical product data sheet.~~ *for the following requirements:*

~~Surface Cleaning Concrete Unit Masonry for Coating.....ASTM D 4261~~
 or
~~Surface Cleaning Concrete for CoatingASTM D 4258~~
~~Testing pH of cleaned concrete surfaceASTM D 4262~~
~~Moisture in concreteASTM D 4263~~

When the anti-graffiti coating or coating system is to be applied over an existing coating, ~~conduct~~ *apply* a test patch (*minimum area of 4 square feet*) in accordance with ~~this Section 560-15.~~ *Allow the test patch to cure a minimum of 307 days without any defects. No time extension will be granted as a result of this test requirement.*

~~563-2.4 Base Coat:~~ Apply the base coat, if part of the system, as recommended by the manufacturer.

~~Unless otherwise specified by the manufacturer, ensure the cured base coat has a minimum dry film thickness of 4.0-8.0 mils.~~

~~563-2.5 Finish Coat Non Sacrificial and Sacrificial:~~ When applicable, ensure the base coat surface is clean and cured to a dry hard state according to the manufacturer's recommendation before applying the finish coat. Mix finish coat and apply in accordance with the manufacturer's recommendations.

~~Ensure the cured finish coat of the two coat system has a minimum dry film thickness of 2.5-5.0 mils.~~

~~Apply as many coats as necessary to provide a finish coat which is a uniform continuous film over the entire surface, free of pinholes, runs, sags, or any other deficiencies.~~

563-23.6-4 Correction of Deficiencies: Remove all *applied anti-graffiti* coatings identified by the Engineer as damaged, *defective*, or *otherwise* not meeting these Specifications, in accordance with the manufacturer's recommendations.

Prepare the surface and reapply the coating in accordance with the manufacturer's recommendations and as specified herein.

Removal and correction of all deficiencies shall be performed at no additional cost to the Department.

~~563-2.7 Removal of Graffiti Before Acceptance:~~ Remove all graffiti from areas receiving anti-graffiti coating, at no additional cost to the Department. Ensure all federal, state, and local environmental regulations are met when removing graffiti.

~~563-2.7.1 Finish Coat Non Sacrificial:~~ Meet the manufacturer's recommendations for removal.

~~563-2.7.2 Finish Coat Sacrificial:~~ Meet the manufacturer's recommendations for removal. Prepare the surface and reapply the sacrificial coating in accordance with the manufacturer's recommendations and as specified herein.

563-3-4 Method of Measurement.

The quantity to be paid for will be plan quantity, in square feet, of the area of anti-graffiti coating completed and accepted.

The area will be based on the surface area shown in the plans with no allowance for surface texture or variable depth surface profiles.

563-4.5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including furnishing and applying all materials to complete the anti-graffiti coating.

Payment shall be made under:

Item No. 563- 3- Anti-Graffiti Coating, ~~(Sacrificial)~~ - per square foot.

Item No. 563- 4- Anti-Graffiti Coating, ~~(Non Sacrificial)~~ - per square foot.

~~Item No. 563- 5- Anti-Graffiti Coating, Water Cleanable - per square foot.~~

ANTI-GRAFFITI COATINGS.**(REV 12-12-11)**

SECTION 563 (Pages 715 and 716) is deleted and the following substituted:

**SECTION 563
ANTI-GRAFFITI COATINGS****563-1 Description.**

Apply an anti-graffiti coating in accordance with the requirements of this Section to the areas shown in the Plans.

563-2 Materials.

Use anti-graffiti coating products meeting the requirements of Section 975 that are recommended for the base substrate by the manufacturer and listed on the Department's Qualified Products List (QPL). Do not use sacrificial coatings on steel structures.

563-3 Application.

563-3.1 General: Apply anti-graffiti coatings in accordance with the manufacturer's product data sheet.

563-3.2 Protection of Adjacent Surfaces: Consider wind direction, velocity and geographic location as having a major impact on all cleaning and anti-graffiti coating operations. Use all necessary precautions to prevent cleaning and anti-graffiti coating materials from being dispersed outside the work site. If conditions are such that material is dispersed to areas where vehicles or other property may be damaged, suspend operations until conditions improve and work can continue without affecting adjacent property.

Protect all surfaces not intended to be coated, which are adjacent to, or in close proximity to the surfaces to be coated, during the application of anti-graffiti coating. Clean surfaces that are to be coated, as per the manufacturer's product data sheet.

563-3.3 Surface Preparation: Remove all graffiti from the substrate. Prior to applying any anti-graffiti coatings, prepare all surfaces to be coated in accordance with ASTM D 4261 or ASTM D 4258 and the manufacturer's product data sheet.

When the anti-graffiti coating or coating system is to be applied over an existing coating, apply a test patch (minimum area of 4 square feet) in accordance with this Section. Allow the test patch to cure a minimum of 7 days without any defects. No time extension will be granted as a result of this test requirement.

563-3.4 Correction of Deficiencies: Remove all applied anti-graffiti coatings identified by the Engineer as damaged, defective, or otherwise not meeting these Specifications, in accordance with the manufacturer's recommendations.

Prepare the surface and reapply the coating in accordance with the manufacturer's recommendations and as specified herein.

Remove and correct all deficiencies at no additional cost to the Department.

563-4 Method of Measurement.

The quantity to be paid for will be plan quantity, in square feet, of the area of anti-graffiti coating completed and accepted.

The area will be based on the surface area shown in the plans with no allowance for surface texture or variable depth surface profiles.

563-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including furnishing and applying all materials to complete the anti-graffiti coating.

Payment shall be made under:

- Item No. 563- 3- Anti-Graffiti Coating, Sacrificial - per square foot.
- Item No. 563- 4- Anti-Graffiti Coating, Non Sacrificial - per square foot.