Florida Department of Transportation

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605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

December 23, 2015

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section **413**
Proposed Specification: **4130204 Sealing Cracks and Concrete Structure Surfaces.**

Dear Mr. Nguyen:

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

The changes are proposed by Amy Tootle of the State Construction Office to require all construction-related documentation to be submitted by electronic means for consistency with the State Construction Office e-Construction initiative.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to daniel.scheer@dot.state.fl.us.

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

Sincerely,

Signature on file

Daniel Scheer, P.E.
State Specifications Engineer

DS/dt
Attachment
cc: Florida Transportation Builders' Assoc.
State Construction Engineer

SEALING CRACKS AND CONCRETE STRUCTURE SURFACES.
(REV 10-14-15)

SUBARTICLE 413-2.4.2 is deleted and the following substituted:

413-2.4.2 Manufacturer's Certification: ~~Provide~~Submit to the Engineer a certification conforming to the requirements of Section 6 from the manufacturer, confirming that the penetrant sealer meets the requirements of this Section. Do not incorporate these materials into the project until the Engineer has accepted and approved the certification for the material. Submit such certification for each LOT of material delivered to the project. In each certification, identify the serial or LOT numbers of the containers certified.

SUBARTICLE 413-3.1 is deleted and the following substituted:

413-3.1 General: Perform the surface preparation and application of a high molecular weight methacrylate to seal cracks on horizontal and slightly sloped concrete surfaces as approved by the Engineer. Applications on bridge decks and other riding surfaces will require the addition of sand over the treated areas to increase the surface friction number (FN) measured as described by AASHTO T242.

The rate of application (ft^2 of concrete per gallon) and the application method and equipment to achieve a minimum average penetration of 1 inch must be approved by the SMO prior to commencement of work based on the size, depth and the internal condition of cracks. Submit a written sealer application plan based on the above described crack characteristics for approval by the SMO. In addition, provide a minimum of 14 days advanced notice so that personnel from the SMO may be present at the beginning of work to evaluate the cracks and ~~provide~~submit final approval of the application rate if such is requested by the Engineer. Make arrangements with the material manufacturer to provide an on-site technical representative with a minimum of ten previous projects with experience in the application and formulation of the methacrylates for the initial application and certify that the mixing ratio, application methods, and sand broadcasting are correct and in accordance with their recommendations. The representative shall then visit the site to provide quality assurance observations every two weeks for applications lasting longer than two weeks.

Maintain a daily log of used resin material to be verified by the Engineer. Include the drum or container identification number in the log as well as the date and location of use. Retain the containers at the jobsite until the Engineer verifies its use and authorizes removal from the site.

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