

ORINATION FORM

Proposed Revisions to the Specifications

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

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

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?

Summary of the changes:

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.

Dan Hurtado 850-414-4130 dan.hurtado@dot.state.fl.us Debbie Toole 850-414-4114 deborah.toole@dot.state.fl.us
Myndi Craig 850-414-4101 myndi.craig@dot.state.fl.us Rebecca Frimmel 850-414-4155 rebecca.frimmel@dot.state.fl.us



Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT
SECRETARY

MEMORANDUM

DATE: June 13, 2019

TO: Specification Review Distribution List

FROM: Stefanie D. Maxwell, Manager, Program Management Office

SUBJECT: Proposed Specification: **4130302 Sealing Cracks and Concrete Structure Surfaces.**

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

This change was proposed by Matthew Duncan of the State Materials Office to modify the language.

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 11, 2019**, may not be considered. Your input is encouraged.

SM/dt

Attachment

SEALING CRACKS AND CONCRETE STRUCTURE SURFACES.
(REV 6-12-19)

SUBARTICLE 413-3.2.1 is deleted and the following substituted:

413-3.2.1 Properties: Use a methacrylate material that meets the following physical and performance requirements:

Table 2: Physical Properties of Methacrylate Resin	
Viscosity (Brookfield RVT)	14-20 cps at 50 rpm
Density (ASTM D1481)	8.5 - 9.0 lb/gl at 77° F
Flash Point (ASTM D93)	> 200°F (Pensky Martens CC)
Odor	Low
Bulk Cure Speed	3 Hours @ 73°F (max.)
Surface Cure	8 Hours @ 73°F (max.)
Gel Time ⁽¹⁾ (ASTM 2471)	60 minutes (max.) @ 73.4 ± 1.8°F
Tack Free Time	4-6 Hours (max.) (at 72°F and 50% Relative Humidity)
Compressive Strength (AASHTO T106)	6,500 psi (min)
Tensile Strength (ASTM C307)	1,300 psi (min)
Shear Bond Adhesion (ASTM C882)	600 psi (min)
Elongation ^{*2)} (ASTM D638)	10% to 30%
Wax Content	0
<u>1. Use a test method capable of measuring the gel time to the nearest 0.5 minute.</u>	
<u>*2. Do not use methacrylate with elongation less than 20% for concrete decks supported by steel girders.</u>	

The monomer shall have a shelf life of no less than 12 months and shall be no more than 8 months old at the time of application. Provide each container shipped to the job site with the following information on a manufacturer's label: manufacturer's name, product name, lot or batch number, date of production, and drum serial number. Identify the catalysts by their generic classification and provide the date of manufacture.