



Florida Department of Transportation

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M E M O R A N D U M

DATE: November 5, 2015

TO: Specification Review Distribution List

FROM: Daniel Scheer, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9260203 Epoxy Compounds.**

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

This change was 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 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 **December 3, 2015**, may not be considered. Your input is encouraged.

DS/dt
Attachment

EPOXY COMPOUNDS.
(REV 10-14-15)

SUBARTICLE 926-2.3 is deleted and the following substituted:

926-2.3 Certification: The Contractor shall ~~provide~~ submit to the Engineer ~~with~~ certification from the manufacturer of the epoxy, confirming that the requirements of this Section are met. The certification shall conform to the requirements of Section 6. Each certification shall cover only one batch of epoxy materials.

SUBARTICLE 926-5.3 is deleted and the following substituted:

926-5.3: Subtype F-2: Subtype F-2 is used for filling larger spalls where a form is required to build back to the original surface. Materials shall be a pourable low modulus type compound capable of bonding to wet surfaces with these properties:

Color	Shall match gray color No. 36622 of FED-STD-595-
Maximum sand loading	2.25 parts sand to one part mixed epoxy by volume
Elongation in tension, minimum	10% by ASTM D 638, seven day cure
Exotherm	110°F by ASTM D 2471, 1 pint sample
Wet bond strength	250 psi at seven days by FM 5-518

Type F-2 products will be accepted on the job. ~~Furnish~~ Submit to the Engineer testing from the manufacturer of the product for each LOT of material to be incorporated in the project. The test results will indicate that the material is in conformance with the Specifications, and will include actual values from the required tests. Obtain approval from the Engineer before incorporating material into the project.

ARTICLE 926-6 is deleted and the following substituted:

926-6 Specific Requirements for Type H Compounds.

Epoxies for structural bonding where bituminous pavement overlays will come in contact with the hardened compound shall meet the requirements for Types A and B compounds above. ~~and the manufacturer shall provide~~ Submit from the manufacturer test data showing that cutback and emulsified asphalts, asphalt cement, and bituminous mixes shall bond to but not soften or otherwise damage the epoxy after a curing period of four days.

Type H products will be accepted on the job. ~~Furnish~~ Submit to the Engineer testing from the manufacturer of the product for each LOT of material to be incorporated in the project. The test results will indicate that the material is in conformance with the Specifications and will include actual values from the required tests. Obtain approval from the Engineer before incorporating material into the project.

ARTICLE 926-8 is deleted and the following substituted:

926-8 Specific Requirements for Type M Compounds.

Coal Tar epoxy coatings for steel sheet and H piles used in bridges, fender systems and other structures subject to immersion in water shall comply with the requirements of SSPC Paint 16 with Type 1 pitch. Application of the epoxy coating shall meet the requirements of Section 560 for a coal tar epoxy coating.

Hot applied coal tar epoxy tape used to protect tie back rods on sheet pile walls and bulkheads shall comply with the requirements of American Water Works Association standard C203. Application shall be according to the manufacturers published recommendations.

~~Provide~~ Submit to the Engineer a manufacturer certification ~~conforming to the requirements of Section 6 from the manufacturer,~~ confirming that the penetrant sealer meets the requirements of this Section. The certification shall conform to the requirements of Section 6. 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.