Florida Department of Transportation

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M E M O R A N D U M

DATE: November 10, 2016

TO: Specification Review Distribution List

FROM: Dan Hurtado, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9240100 Admixtures for Concrete.**

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

This change was proposed by Donnie Bagwell of the State Materials Office (SMO) to update 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 **December 8, 2016,** may not be considered. Your input is encouraged.

DH/dt
Attachment

ADMIXTURES FOR CONCRETE.
(REV 10-27-16)

ARTICLE 924-1 is deleted and the following substituted:

924-1 General.

This Section covers materials for use as admixtures for concrete. The use of admixtures is restricted to those admixtures as may be allowed or required elsewhere in the specifications for specific concrete applications. Admixtures shall comply with applicable AASHTO and ASTM specifications as modified in 924-2.3 through 924-2.~~7~~8. Admixtures that have been previously qualified for Department use are listed on the Department's Approved Product List (APL).

ARTICLE 924-2 is expanded by the following:

924-2.8 Type S (Specific Performance): Specific performance admixtures shall meet the requirements of ASTM C494 for Type S admixtures except the compressive strength at one year, flexural strength and relative durability factor requirements are waived. The following Type S admixtures may be added to plastic concrete.

924-2.8.1 Workability Retention: Workability retention admixtures are used to extend workability and slump life without retarding the setting time. The dosage rate used shall be based on the manufacturer's recommendation in order to maintain 80% of the initial measured slump after 60 minutes.

924-2.8.2 Shrinkage Reducing: Shrinkage reducing admixtures are used to minimize the shrinkage of plastic and hardened concrete. The dosage rate used shall be based on the manufacturer's recommendation and may vary for a specific application.

924-2.8.3 Rheology Modifying: Rheology modifying admixtures are used to maximize the rheology of plastic concrete. The dosage rate used shall be based on the manufactures recommendation and may vary for a specific application.

SUBARTICLE 924-3.3 is deleted and the following substituted:

924-3.3 Method of Test for Strength Reduction: The percentage reduction in strength shall be calculated from the average strength of at least three standard 6 inch by 12 inch, or 4 inch by 8 inch, cylinders of each class of concrete. Specimens shall be made and cured in the laboratory in accordance with ASTM C192, and shall be tested in accordance with ASTM C39. The percentage of entrained air shall be determined in accordance with ASTM C173 or ASTM C231.