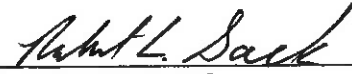


SUPERSEDED BY EB 15-031 EFFECTIVE 9/28/15		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 09-003
Title: STANDARD SPECIFICATION §711-08 – ADMIXTURES- NON-CHLORIDE ACCELERATORS			
Distribution: ☒ Manufacturers (18) ☐ Local Govt. (31) ☒ Agencies (32) ☐ Surveyors (33) ☒ Consultants (34) ☒ Contractors (39) ☐ _____ ()		Approved:  Robert L. Sack, PE Deputy Chief Engineer, Research 17 DEC 09 Date	

ADMINISTRATIVE INFORMATION:

- This Engineering Instruction (EI) is effective beginning with projects submitted for the letting of May 6, 2010
- This EI does not supersede any other issuance.
- The shelf notes transmitted by this EI will be incorporated into a future version of the Standard Specifications.

PURPOSE: To establish material, sampling and testing requirements for non-chloride chemical admixtures in section 711-08 ADMIXTURES of the Standard Specifications.

TECHNICAL INFORMATION: Non-Chloride accelerating chemical admixtures are used in the production of Portland Cement concrete to decrease set time and increase strength gain. This EI establishes standard criteria and requirements to obtain Approved List status for these products.

IMPLEMENTATION:

- The Design Quality Assurance Bureau will insert the transmitted shelf notes into contract proposals beginning with projects submitted for the letting of May 6, 2010.

TRANSMITTED MATERIALS:

Shelf notes for revised Section 711-08 ADMIXTURES are attached. Both metric and US Customary versions are included.

BACKGROUND: Criteria for Approved List acceptance of these products was never officially established. This EI provides requirements necessary for approval and acceptance of Non-Chloride Accelerators.

CONTACT:

Direct questions regarding this issuance to Jim Patnaude, Materials Bureau, 518-485-7056.
jpatnaude@dot.state.ny.us

Make the following changes to the Standard Specifications, dated May 4, 2006:

Page 831 under **711-08 ADMIXTURES**, *delete* the paragraph **SCOPE**, and *replace* with the following:

“SCOPE. These specifications cover the material requirements for air-entraining, water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures used in the manufacture of Portland Cement concrete.”

Page 833, *after* paragraph **E. Length Change**, *add* the following:

“Non-Chloride Accelerating Admixtures. Non-chloride accelerating admixtures shall conform to the requirements outlined in ASTM C494 for Type C or Type E admixtures.”

Page 833, *delete* the paragraphs **SAMPLING AND TESTING** and **BASIS OF ACCEPTANCE**, and *replace* with the following:

“SAMPLING AND TESTING. A liter sample of admixture shall be submitted to the Materials Bureau by the manufacturer applying for approval, except that for Water-reducing (High Range) admixtures, two liters will be required. The manufacturer shall submit information on the formulation of the product including the raw materials from which it is compounded, data from tests performed in accordance with these specifications and a description of the manufacturing process. Data from tests performed in accordance with ASTM C260 for air-entraining agents and ASTM C494 for water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures may be substituted.

The Department will test the submitted admixture sample according to written Department instructions. The test procedures are available from the Materials Bureau upon request.

The Department reserves the right to monitor the performance of any previously approved admixture. Samples of admixture may be taken from actual concrete operations and retested by the Materials Bureau.

BASIS OF APPROVAL. The approval of the admixture shall be based upon the submitted information and tests performed by the Materials Bureau. Upon approval by the Materials Bureau, the name of the product will be placed on the Approved List.

BASIS OF ACCEPTANCE. Admixtures will be accepted on the basis of the brand name appearing on the Approved List and the product containers plainly labeled with the brand name.

Any admixtures sampled from actual concrete operations and retested in the Materials Bureau shall give substantially the same results, at the same dosage rate, as the original tests. Any significant change will be cause for rejection of that material and may require a resubmission of the admixture by the manufacturer for a complete retest to determine specification compliance. The admixture may be withdrawn from the Approved List during the retest period.”

Make the following changes to the Standard Specifications, dated May 1, 2008:

Page 872 under **711-08 ADMIXTURES**, *delete* the paragraph **SCOPE**, and *replace* with the following:

“SCOPE. These specifications cover the material requirements for air-entraining, water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures used in the manufacture of Portland Cement concrete.”

Page 874, *after* paragraph **E. Length Change**, *add* the following:

“Non-Chloride Accelerating Admixtures. Non-chloride accelerating admixtures shall conform to the requirements outlined in ASTM C494 for Type C or Type E admixtures.”

Page 874, *delete* the paragraph **SAMPLING AND TESTING**, and *replace* with the following:

“SAMPLING AND TESTING. A one quart sample of admixture shall be submitted to the Materials Bureau by the manufacturer applying for approval, except that for Water-reducing (High Range) admixtures, two quarts will be required. The manufacturer shall submit information on the formulation of the product including the raw materials from which it is compounded, data from tests performed in accordance with these specifications and a description of the manufacturing process. Data from tests performed in accordance with ASTM C260 for air-entraining agents and ASTM C494 for water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures may be substituted.

The Department will test the submitted admixture sample according to written Department instructions. The test procedures are available from the Materials Bureau upon request.

The Department reserves the right to monitor the performance of any previously approved admixture. Samples of admixture may be taken from actual concrete operations and retested by the Materials Bureau.”

Page 875, *delete* the paragraph **BASIS OF ACCEPTANCE**, and *replace* with the following:

“BASIS OF APPROVAL. The approval of the admixture shall be based upon the submitted information and tests performed by the Materials Bureau. Upon approval by the Materials Bureau, the name of the product will be placed on the Approved List.

BASIS OF ACCEPTANCE. Admixtures will be accepted on the basis of the brand name appearing on the Approved List and the product containers plainly labeled with the brand name.

Any admixtures sampled from actual concrete operations and retested in the Materials Bureau shall give substantially the same results, at the same dosage rate, as the original tests. Any significant change will be cause for rejection of that material and may require a resubmission of the admixture by the manufacturer for a complete retest to determine specification compliance. The admixture may be withdrawn from the Approved List during the retest period.”