SECTION 1401

AIR-ENTRAINING ADMIXTURES FOR CONCRETE

1401.1 DESCRIPTION

This specification covers admixtures for use as air-entraining agents to be added to concrete mixtures. An air-entraining agent is defined as an admixture that is used as an ingredient of concrete, added to the batch immediately before or during mixing, for the purpose of entraining air.

1401.2 REQUIREMENTS

Provide material that complies with AASHT0 M 154 for compressive and flexural strength, and resistance to freezing and thawing.

1401.3 TEST METHODS

As specified in AASHTO M 154.

1401.4 PREQUALIFICATION

All air-entraining agents must be prequalified. Submit two copies of a test report, from a recognized laboratory, to the Engineer of Tests. The test report must establish that concrete containing the agent complies with the requirements for compressive and flexural strength, and resistance to freezing and thawing as specified in AASHTO M 154. Tests for bleeding, time of set, and length change are not required. A recognized laboratory is one operated by any State Transportation Agency, the Federal Highway Administration, or other cement and concrete laboratory regularly inspected by the Cement & Concrete Reference Laboratory (CCRL) of the National Institute of Standards and Technology.

Results of tests from the AASHTO National Transportation Product Evaluation Program (NTPEP) will be accepted in lieu of the sample requested above. Include the most recent NTPEP test report along with the other documentation requested. Include evidence that the product being offered is identical to the one reported in the NTPEP report.

The test report will be reviewed for compliance with the specification. The Bureau of Materials and Research will maintain a list of air-entraining agents that have been prequalified.

1401.5 BASIS OF ACCEPTANCE

The acceptance of each shipment of material provided under this specification will be based on receipt and approval of a Type C certification as specified in **DIVISION 2600**.