



Minnesota Department of Transportation
Approved Chemical Admixture Program
November 25, 2009

The Minnesota Department of Transportation (Mn/DOT) will only accept chemical admixtures from the Mn/DOT Approved Products List. This applies to all chemical admixtures sold to contractors for use on Mn/DOT projects.

For a chemical admixture to be approved by Mn/DOT, a Manufacturer must demonstrate an ability to manufacture admixtures meeting the requirements of Mn/DOT Specification 3113 – Class I and ASTM C-494.

The Manufacturer must comply with the following:

A. Manufacturer Quality Control Program

Conduct an internal Quality Control Program. Mn/DOT may request this Quality Control Program at any time.

B. Reference Samples

Manufacturer shall submit a 1 quart sample for approval to the Mn/DOT Materials Lab along with an infrared spectrum (IR) of the admixture. Also include a Materials Safety Data Sheet (MSDS) and a Technical Data Information Sheet.

C. Testing

Manufacturer shall provide Independent Testing from a CCRL Laboratory for each admixture. Tests will be performed according to ASTM Standards, or Mn/DOT Methods as detailed in the Mn/DOT product specification. Other test methods may be used upon approval by Mn/DOT.

D. Certification

Each admixture shall be accompanied by manufacturers written certification including:

- Typical Dosage Rate
- Compatibility with Fly Ash (and Dosage Rate if different)
- Chloride Content
- Physical Properties
 - Total Solids
 - PH
 - Specific Gravity

E. Approved Products List

Mn/DOT limits the number of approved products by each manufacturer. They are as follows:

- Type A, Water Reducing Admixture – 6
- Type B, Retarding Admixture - 1
- Type C, Accelerating Admixture - 2; 1 Chloride, 1 Non-chloride
- Type D, Water Reducing and Retarding Admixture - 1
- Type E, Water Reducing and Accelerating Admixture - 1
- Type F, Water Reducing, High Range Admixture - 4
- Type G, Water Reducing, High Range and Retarding Admixture – 1
- Type S, Specific Performance Admixture - 2

F. Field Acceptance

For each approved admixture, Mn/DOT will begin to collect field samples of these products for comparison to the reference samples you sent us, as stipulated in the most current version of section 6 of ASTM C-494, "Uniformity And Equivalence".

G. Non-Compliance

If future samples of these materials do not meet Mn/DOT specifications or the uniformity requirements, the product may be removed from the approved product list and subject to other failing material procedures.

Please also note that it is the manufacturers responsibility to immediately notify Mn/DOT if the chemical formulation of any product is changed or modified, or if the product is no longer being produced. If our testing determines that the chemical formulation has changed, without prior notification from the manufacturer, the product may be removed from the approved product list.

Reference samples, test data, and certification shall be sent to:

Minnesota DOT
Attention: Mn/DOT Concrete Engineering Unit
1400 Gervais Ave.
Maplewood MN 55109

Tel. (651) 366-5575
Fax (651) 366-5530