

Illinois Tollway
APPROVED LIST OF WARM-MIX ASPHALT (WMA) TECHNOLOGIES
March 2, 2020

(Applicable to several Tollway asphalt mixture special provisions.)

Chemical Additive Technologies

Akzo Nobel Surface Chemistry LLC
Asphalt Applications
525 W. Van Buren St.
Chicago, IL 60607-3823
Attn: Sundaram Logaraj
www.sc.akzonobel.com
“REDISSET LQ”

Cargill Industrial Specialties
13400 15th Ave N, Suite B
Plymouth, MN 55441
Attn: Susan Listberger
www.cargill.com
“Anova™ 1815 Additive”

Ingevity
5255 Virginia Ave
North Charleston, SC 29406
Attn: Craig Reynolds
www.ingevity.com
“EVOTHERM M1”
“EVOTHERM J1”
“EVOTHERM J12”
“EVOTHERM P25”

Zydex Industries
106 Kitty Hawk Drive
Morrisville, NC 27560
Attn: Radhika Kiran
www.zydex.com
“Zycotherm SP”

Mechanical (Foaming) Technologies

Astec, Inc.
4101 Jerome Avenue
P.O. Box 72787
Chattanooga, TN 37407
Attn: Mike Varner
www.astecinc.com
“ASTEC WARM MIX SYSTEMS”

All-State Materials Group
Sonneborn, Inc.
100 Sonneborn Lane
Petroia, PA 16050
Attn: Chris Strack
www.asmg.com
“SonneWarmix™”

AQUABlack Solutions
6501 E. Commerce Ave
Kansas City, MO 64120
Attn: Roger Sandberg
www.maxamequipment.com
“MAXAM AQUABLACK”

Gencor Industries, Inc.
5201 North Orange Blossom Trail
Orlando, FL 32810
Attn: Dennis B. Hunt
www.gencor.com
“GENCOR ULTRAFOAM GX2™”

Stansteel Asphalt Plant Products
12711 Townepark Way
Louisville, KY 40243
Attn: James Horne
www.stansteel.com
“STANSTEEL ACCU-SHEAR”

AquaFoam LLC
7 Wildwood Drive
Fairfield, OH 45014
Attn: Paul Schwan
aquafoamllc.com
“AquaFoam”

Terex Roadbuilding
9528 W. Interstate 40
Oklahoma City, OK 73127
Attn: Tim Owens
www.terex.com
“Terex Warm Mix Asphalt System”

A.Scope

A Warm-Mix Asphalt (WMA) Technology will be tested and approved prior to use on an Illinois Tollway project. The following guidelines provide the submittal and testing requirements for Illinois Tollway WMA Technologies:

B.Procedure

Submit a proposed WMA Technology to the Illinois Tollway, including the following information:

- The product brand name
- Safety Data Sheet
- Technical Data Sheet
- Contact person’s name, title, address, email address, and phone number

Send the submittal information to:

Cynthia M. Williams
Illinois Tollway
Materials Department
2700 Ogden Avenue
Downers Grove, Illinois 60515-1703
cmwilliams@getipass.com

The process for evaluating a WMA Technology involves incorporating the material / technology into a Tollway asphalt mix design containing the proposed technology, along with field production of the mix using the WMA technology. The full submittal shall include the following information:

Part 1:

- 1) All the information required for a Tollway asphalt mix design.
- 2) WMA technology manufacturer’s established recommendations for usage.
- 3) WMA technology manufacturer’s established target rate for water and/or additives, the acceptable variation for production, and documentation showing the impact of excessive production variation.
- 4) Documentation of at least 3 past WMA technology field applications including project type, project owner, tonnage, location, mix design, mixture volumetrics, field density, and performance.
- 5) Temperature range for mixing.
- 6) Temperature range for compacting.
- 7) Asphalt binder performance grade test data over the range of WMA additive percentages proposed for use.

- 8) Laboratory test data, samples and sources of all mixture components, and asphalt binder viscosity-temperature relationships.

Part 2:

- 1) WMA mixture QC/QA test results measured from the test strip samples specific to the Contractor's proposed WMA technology.
- 2) Lab and/or production Hamburg and DCT results for the WMA mix.

If you have any questions regarding the testing and approval process, contact Cynthia Williams at 630-241-6800, ext. 4944.

The Illinois Tollway shall be notified of any change to the chemical additive, mechanical foaming technology, or company contact information. Failure to do so may result in removal of product from the approved list.