

Illinois Tollway
APPROVED LIST OF WARM-MIX ASPHALT (WMA) TECHNOLOGIES
June 26, 2025

(Applicable to several Tollway asphalt special provisions.)

Chemical Additive Technologies

Arkema Road Science
6502 South Yale Avenue, Ste 100
Tulsa, OK 74143

Attn: Heather O'Hara

<http://specialtysurfactants.arkema.com/en/markets-we-serve/asphalt-and-bitumen>

"Warmgrip® ULTRA 1"

Akzo Nobel Surface Chemistry
LLC

Asphalt Applications

525 W. Van Buren St.

Chicago, IL 60607-3823

Attn: Sundaram Logaraj

www.sc.akzonobel.com

"REDISET 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.