

Warm Mix Additives - Approved Products and Processes

At this time, any/all products or processes are approved if meeting the definition in WisDOT standard spec 450.2.1 and the requirements for production in 460.2.4.4

The products and suppliers listed below are provided as additional reference. This listing is not intended to be exclusionary rather informational.

AS OF 1/1/2018, ALL PRODUCTS USED FOR THIS APPLICATION MUST BE TESTED AND APPROVED THROUGH AASHTO NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP)

2018 WisDOT WMA NTPEP Approval Criteria:

- PG Binder Grading Test:
 - No loss of PG grade type in AASHTO M320 and M332 Binder Grading Criteria.
 - Examples of changes that would disqualify a product:
 - PG 64-22 becomes a PG 58-22 after addition, modifying the binder.
 - PG 64H-22 becomes a PG 64S-22 after addition.
- TSR (AASHTO T 283):
 - TSR of sample with WMA Product must have the same ratio or better than that of control mix.
 - Example – control 68%, WMA 68% or greater
 - TSR can't demonstrate a drop in dry or wet strength of greater than 20%
 - Example – control dry strength is 200 pounds, WMA dry strength must be 160 pounds or greater
- Hamburg Wheel (AASHTO T 324):
 - HW must have at least 10,000 passes before reaching 12.5mm rut depth
 - HW SIP must be greater than 7,500 passes.

Suppliers may request WisDOT evaluation once the NTPEP testing cycle is complete. Suppliers must resubmit chemical products to NTPEP for testing upon any reformulation of the product. A written request for re-approval must be submitted to the department at least two weeks prior to the expiration date for the product to remain in the Approved Products List.

When submitting a written request for approval to the department, the following must be included:

- Company Name
- Physical and mailing addresses
- Product brand name
- Contact person's name with email address and phone number
- NTPEP product identification

Send submittal information to:

Steve Hefel
Wisconsin Department of Transportation
Bureau of Technical Services, Truax Center
3502 Kinsman Blvd
Madison, WI 53704
steven.hefel@dot.wi.gov (Note: email is to be used as the primary means of sending this information)

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Date last edited: 03/01/2019

Product or System ID	Supplier/Manufacturer	Date Added/Removed
Accu-Shear Dual Warm Mix Additive System	Stansteel	2/1/2018
AD-here LOF 65-00 with Cecabase RT 945	Road Science LLC	2/1/2018
Advera-WMA	PQ Corporation	2/1/2018
AkzoNobel's chemical additive, Rediset LQ 1102C	Akzo Nobel Surface Chemistry LLC	2/1/2018
Anova 1501	Cargill	3/1/2019
Aquablack Warm Mix Asphalt	Maxam Equipment Inc	2/1/2018
BituTech RAP	Engineered Additives	2/1/2018
CECABASE-RT	Arkema Group	2/1/2018
Double Barrel Green System	Astec Industries	2/1/2018
ECOBIT	All States Materials Group	2/1/2018
Eco-Foam II	AESCO/Madsen	2/1/2018
Evotherm M Series	Ingevity (formerly MeadWestvaco Specialty Chemicals)	2/1/2018
Evotherm P Series	Ingevity (formerly MeadWestvaco Specialty Chemicals)	2/1/2018
Green Machine	Gencor Industries	2/1/2018
HGrant Warm Mix System	Herman Grant Company	2/1/2018
Iterlow T (Hyper-Therm/Qualitherm)	Iterchimica	2/1/2018
LEA-CO	Advanced Concepts Engineering Co	2/1/2018
LEADGAP	Kumho Petrochemical and Korea Institute of Construction Technology	2/1/2018
Low Emission Asphalt	McCannaughay Technologies	2/1/2018
Meeker Warm Mix	Meeker Equipment Corp. Inc	2/1/2018
RAPpave	Green Paving Solutions, LLC	2/1/2018
RASpave	Green Paving Solutions, LLC	2/1/2018
Sasobit	Sasol Wax North America Corporation	2/1/2018
Shell Thiopave	Shell	2/1/2018
SonneWarmix	Sonneborn Products	2/1/2018
Tri-Mix Warm Mix Injection	Tarmac Inc	2/1/2018
Warm Mix Asphalt System	Terex Roadbuilding	2/1/2018
Zyco-Therm	Zydex Industries	3/1/2019