



New Hampshire Department of Transportation
Bureau of Materials and Research

Qualified Products List

Updated January 5, 2023

NOTICE

- Products appearing on this list have been pre-qualified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects under the Section / Item Number indicated, without further testing.
- Products that are listed with an EXPIRATION DATE are only qualified for use through that date.
- *A Certificate of Compliance (COC) is required for products on the Qualified Products List per Section 106.04 of the Standard Specifications for Road and Bridge Construction.*
- A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research, Product Evaluation Unit Supervisor. Such requests shall be made with sufficient lead-time to allow for any necessary testing and/or research.
- Products shall conform to NH Code of Administrative Rules, Chapter Env-A 4200 Architectural and Industrial Maintenance Coatings (available from the NH Department of Environmental Services), and all other State and Federal regulations related to safety or the environment that are in effect at the time of use. Inclusion of a product on this list does not imply that the product meets all regulations.
- The manufacturer's Safety Data Sheet (SDS, formerly, MSDS) should be referred to before use of any product appearing on this list.
- Unless denoted otherwise in the plans or specifications, manufacturer recommendations regarding use, preparation, application, coverage, and shelf life for all products appearing on this list, shall be adhered to.
- Report any failure, incompatibility or other problem associated with any product on this list to:
Product Evaluation Supervisor, NHDOT Bureau of Materials & Research
PO Box 483, 5 Hazen Drive, Concord, NH 03302-0483
Tel: (603) 271-3151
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- 604 A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
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- B. ITEM 606.9512 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 2
- C. ITEM 606.9513 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 3
- D. ITEM 606.9522 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2
- E. ITEM 606.9523 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3
- F. through I. These categories are not currently listed.
- 609 A. NON-SHRINK, NON-METALLIC GROUT (Cement Mortar for Bedding Curb; Bridge)
- B. POLYESTER FIBERS FOR BITUMINOUS CURB
- 616 A. SAW CUT LOOP SEALANT
- 619 A. TEMPORARY RAISED PAVEMENT MARKERS
- 632 A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)
- B. Not Currently Used
- C. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, LEVEL I
- D. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, LEVEL II
- E. Not currently used

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- F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)
- A. through G. These categories are not currently used.
- H. TACKIFIERS
- I. Not currently used.
- J. Not currently used
- K. ITEM 645.42 - TEMPORARY SLOPE MATTING TYPE B (Wildlife friendly)
- L. Not currently used
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- O. Not currently used
- P. ITEM 645.611 - BONDED FIBER MATRIX
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- A. Not currently used
- B. Not currently used
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SECTION 401 - PLANT MIX PAVEMENTS - GENERAL

A. WARM MIX ASPHALT TECHNOLOGY

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Arkema, Inc.	CECABASE RT * * *	1/1/2027
Astec, Inc.	Double Barrel Green System, Green Pac *	1/1/2027
Collaborative Aggregates, LLC	Delta S * * *	1/1/2025
Gencor Industries Inc.	Gencor Ultrafoam GX2 *	1/1/2027
Ingevity	Evotherm P25 WMA Technology * * *	1/1/2025
Maxam Industries, Inc.	MAXAM AQUABlack Warm Mix System *	1/1/2027
Meeker Equipment Co., Inc.	Meeker WMA System *	1/1/2027
Sonneborn, LLC	SonneWarmix RT * *	1/1/2025
Stansteel	Stansteel Accu-Shear WMA System *	1/1/2027
Terex Roadbuilding	Terex WMA System *	1/1/2027

* = Foaming Process ** = Organic Additive (Wax) *** = Chemical Additive

SECTION 403 - HOT BITUMINOUS PAVEMENT

A. Not currently used.

B. Not currently used.

C. ITEM 403.6 - PAVEMENT JOINT ADHESIVE

These products are qualified as being able to meet the requirements of Sections 401 & 403 of the NHDOT Standard Specifications for Road and Bridge Construction.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Crafco, Inc.	Pavement Joint Adhesive (Part No 34524)	1/1/2024
Crafco, Inc. (f/k/a Right / Pointe, LLC)	RP Joint Adhesive (f/k/a Joint Adhesive JTS-063)	1/1/2024

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SECTION 413 - HOT-POURED CRACK SEALANT

A. ITEM 413.1 - HOT Poured CRACK SEALANT, Type II

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Crafco, Inc.	Flex a Fill 9005	1/1/2025
Crafco, Inc.	Road Saver 201	1/1/2025

B. ITEM 413.2 - HOT Poured CRACK SEALANT, Low Modulus, Type IV (Modified)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Crafco, Inc.	Road Saver 231	1/1/2025
Deery Brand (Crafco Inc.)	Deery 101	1/1/2025

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

Cast Steel Grades listed below

<u>Manufacturer:</u>	<u>Product:</u>	
Associated Pile & Fitting Corp.	Hard-Bite HP 77600-B	(ASTM A148 90/60)
Associated Pile & Fitting Corp.	Hard-Bite HP 77750-B	(ASTM A148 90/60)
Associated Pile & Fitting Corp.	Hard-Bite HP 7780-B	(ASTM A148 90/60)
Associated Pile & Fitting Corp.	Super-Bite PAR-T Series	(ASTM A148 90/60)
Construction Supply Company	HT 3314	(ASTM A27 65/35)
DFP Foundation Products, LLC	Tuftip Tufloy H-777	(ASTM A148 90/60)

Cast Steel Driving Points conforming to ASTM A27 65/35 are not compatible with Steel H-Piles conforming to ASTM A572 Grade 345 (50).

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SECTION 520 - PORTLAND CEMENT CONCRETE

A. RAPID-HARDENING PATCHING MATERIAL *

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
CTS Cement Manufacturing Corp.	Rapid Set DOT Concrete Mix	1/1/2026
CTS Cement Manufacturing Corp.	Rapid Set DOT Repair Mix	1/1/2026
Dayton Superior Corp.	DOT Rapid Repair	1/1/2027
Dayton Superior Corp.	HD 50	1/1/2026
Kaufman Products, Inc.	Duracrete II VOFT	1/1/2025
MAPEI Corporation	Planitop 18 ES	1/1/2026
MAPEI Corporation	Planitop 18 TG	1/1/2024
MAPEI Corporation	Planitop XS	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterEmaco T 1060 (f/k/a 10-60 Rapid Mortar)	1/1/2024
Phoscrete Corporation	Phoscrete HC	1/1/2024
Silpro LLC	SilproRapid	1/1/2026
Spec Chem, LLC	RepCon V/O	1/1/2024
The Euclid Chemical Company	Euco Repair SCC Fast	1/1/2024
The Euclid Chemical Company	Euco Repair V100	1/1/2026
The Euclid Chemical Company	Versaspeed 100	1/1/2024
The Quikrete Companies, LLC	CGFS DOT Mix Extended	1/1/2024
The Quikrete Companies, LLC	Commercial Grade FastSet DOT Mix (No.1244-56)	1/1/2024
The Quikrete Companies, LLC	Rapid Road Repair (No. 1242-50 & 1242-51)	1/1/2024
The Quikrete Companies, LLC	Rapid Road Repair CA	1/1/2025
The Quikrete Companies, LLC	Rapid Road Repair CA Extended	1/1/2025
The Quikrete Companies, LLC	Rapid Road Repair Extended (No. 1242-80)	1/1/2026
Western Material & Design	FasTrac 246	1/1/2024

** Refer to Appendix A to assist with selection of appropriate product.*

B. Not Currently Used

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C. AIR ENTRAINING ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
CHRYSO Inc.	CHRYSO Air G 100	1/1/2025
Fritz-Pak Corporation	Air Plus	1/1/2026
Fritz-Pak Corporation	Super Air Plus	1/1/2026
GCP Applied Technologies Inc.	Daravair 1000 (a/k/a Daravair Pave 10)	1/1/2025
GCP Applied Technologies Inc.	Darex II AEA	1/1/2025
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	Polychem SA	1/1/2024
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	Polychem SA-50	1/1/2024
MAPEI Corporation	Polychem VR	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterAir AE 200	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterAir AE 400	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterAir AE 90	1/1/2027
Sika Corporation	Sika AEA-14	1/1/2027
Sika Corporation	Sika Air	1/1/2024
Sika Corporation	Sika Air-260	1/1/2024
Sika Corporation	SikaControl Air-160	1/1/2024
The Euclid Chemical Company	Eucon AEA-92	1/1/2025
The Euclid Chemical Company	Eucon Air Mac6	1/1/2024
The Euclid Chemical Company	Eucon Air Mix 200	1/1/2027
The Euclid Chemical Company	Eucon Air Mix 250	1/1/2027

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D. WATER REDUCING ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
CHRYSO Inc.	CHRYSO Optima 249	1/1/2024
CHRYSO Inc.	CHRYSO Quad 842	1/1/2026
GCP Applied Technologies Inc.	ADVA 140 (M)	1/1/2025
GCP Applied Technologies Inc.	ADVA 190	1/1/2025
GCP Applied Technologies Inc.	ADVA 198	1/1/2027
GCP Applied Technologies Inc.	ADVA CAST 585	1/1/2025
GCP Applied Technologies Inc.	ADVA CAST 600	1/1/2025
GCP Applied Technologies Inc.	Clarena MC2000	1/1/2026
GCP Applied Technologies Inc.	Daracem 55	1/1/2025
GCP Applied Technologies Inc.	Daracem 65	1/1/2025
GCP Applied Technologies Inc.	EXP 950	1/1/2025
GCP Applied Technologies Inc.	MIRA 95	1/1/2025
GCP Applied Technologies Inc.	WRDA/HYCOL	1/1/2026
GCP Applied Technologies Inc.	Zyla 630	1/1/2027
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	EVO 2500	1/1/2024
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	Polychem 850	1/1/2024
MAPEI Corporation	Dynamon NRG 1092 Type A	1/1/2026
MAPEI Corporation	Dynamon SX	1/1/2024
MAPEI Corporation	KB 1200	1/1/2024
MAPEI Corporation	Polychem 400 NC	1/1/2024
MAPEI Corporation	Polychem 441	1/1/2025
MAPEI Corporation	Polychem SPC	1/1/2025
Master Builders Solutions (f/k/a BASF)	Master X-Seed 66	1/1/2027
Master Builders Solutions (f/k/a BASF)	MasterGlenium 3030	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7500	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7620	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterPolyheed 1020	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterPolyHeed 1725	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterPolyheed 997	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterPozzolith 200	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterPozzolith 322	1/1/2025
Sika Corporation	Sika Plastocrete-161	1/1/2026
Sika Corporation	Sika Plastocrete-250	1/1/2024
Sika Corporation	Sika ViscoCrete 2100	1/1/2027
Sika Corporation	Sika ViscoFlow-2020	1/1/2024
Sika Corporation	Sikament 475	1/1/2027
Sika Corporation	Sikament AFM	1/1/2026
Sika Corporation	SikaPlast 300GP	1/1/2024
Sika Corporation	ViscoCrete 1000	1/1/2024
The Euclid Chemical Company	Eucon MR	1/1/2025
The Euclid Chemical Company	Eucon SE	1/1/2026
The Euclid Chemical Company	Eucon WR-91	1/1/2025
The Euclid Chemical Company	Plastol 5000	1/1/2025

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The Euclid Chemical Company	Plastol 6420	1/1/2026
The Euclid Chemical Company	Plastol 6425	1/1/2026
The Euclid Chemical Company	Plastol Ultra 209	1/1/2025

Note: 520.D Water Reducing Admixture products list on the top of page 9, and on the previous page (8).

E. RETARDING ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Fritz-Pak Corporation	Mini Delayed Set	1/1/2027
Fritz-Pak Corporation	Standard Delayed Set	1/1/2027
GCP Applied Technologies Inc.	Daratard 17	1/1/2026
GCP Applied Technologies Inc.	Recover	1/1/2026
GCP Applied Technologies Inc.	ZYLA R	1/1/2024
MAPEI Corporation	Polychem R	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterPozzolith 200	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterPozzolith 322	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterSet DELVO	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterSet R 100	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterSet R 961	1/1/2025
Sika Corporation	Sika Plastiment	1/1/2026
Sika Corporation	Sika Plastocrete-161	1/1/2026
Sika Corporation	Sika Plastocrete-250	1/1/2024
Sika Corporation	Sikatard 440	1/1/2024
The Euclid Chemical Company	Eucon Retarder 75	1/1/2025
The Euclid Chemical Company	Eucon SE	1/1/2024
The Euclid Chemical Company	Eucon Stasis	1/1/2026
The Euclid Chemical Company	Eucon WR-91	1/1/2025

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F. WATER-REDUCING, HIGH-RANGE ADMIXTURES

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
CHRYSO Inc.	CHRYSO Optima 249	1/1/2024
CHRYSO Inc.	CHRYSO Quad 842	1/1/2026
Fritz-Pak Corporation	Supercizer 5	1/1/2027
Fritz-Pak Corporation	Supercizer 7	1/1/2024
GCP Applied Technologies	Elara SP200	1/1/2026
GCP Applied Technologies Inc.	ADVA 140 (M)	1/1/2026
GCP Applied Technologies Inc.	ADVA 190	1/1/2025
GCP Applied Technologies Inc.	ADVA 198	1/1/2025
GCP Applied Technologies Inc.	ADVA Cast 535	1/1/2025
GCP Applied Technologies Inc.	ADVA CAST 575	1/1/2025
GCP Applied Technologies Inc.	ADVA CAST 585	1/1/2025
GCP Applied Technologies Inc.	ADVA CAST 600	1/1/2025
GCP Applied Technologies Inc.	Clarena MC2000	1/1/2026
GCP Applied Technologies Inc.	EXP 950	1/1/2025
GCP Applied Technologies Inc.	MIRA 95	1/1/2025
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	EVO 2500	1/1/2024
MAPEI Corp. (f/k/a Gnl. Resces.Techn.)	Polychem 850	1/1/2024
MAPEI Corporation	Dynamon NRG 1092 Type F	1/1/2026
MAPEI Corporation	Dynamon SX	1/1/2024
MAPEI Corporation	Dynamon SX 37	1/1/2026
MAPEI Corporation	KB 1200	1/1/2025
MAPEI Corporation	Melchem	1/1/2025
MAPEI Corporation	Polychem 441	1/1/2025
MAPEI Corporation	Polychem SPC	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterGlenium 3030	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterGlenium 3400	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7500	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7620	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7700	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterGlenium 7710	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterPolyheed 1020	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterPolyHeed 1725	1/1/2026
Master Builders Solutions (f/k/a BASF)	MasterPolyheed 997	1/1/2025
Master Builders Solutions (f/k/a BASF)	MasterRheobuild 1000	1/1/2026
Sika Corporation	Sika ViscoCrete 2100	1/1/2027
Sika Corporation	Sika ViscoCrete 6100	1/1/2024
Sika Corporation	Sikament 475	1/1/2027
Sika Corporation	Sikament 610	1/1/2026
Sika Corporation	Sikament AFM	1/1/2026
Sika Corporation	ViscoCrete 1000	1/1/2027
The Euclid Chemical Company	Eucon MR	1/1/2025
The Euclid Chemical Company	Plastol 5000	1/1/2025
The Euclid Chemical Company	Plastol 6400	1/1/2026

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The Euclid Chemical Company	Plastol 6420	1/1/2026
The Euclid Chemical Company	Plastol 6425	1/1/2026
The Euclid Chemical Company	Plastol Ultra 209	1/1/2025

Note: 520.F Water Reducing, High-Range Admixture products list on the top of page 11, and on the previous page (10).

G. CORROSION INHIBITORS

Use of a qualified admixture is contingent upon approval of a concrete mix design that includes the admixture as a component.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
GCP Applied Technologies Inc.	DCI	1/1/2024
GCP Applied Technologies Inc.	DCI-S	1/1/2024
Master Builders Solutions (f/k/a BASF)	MasterLife CI 30	1/1/2024
Sika Corporation	CNI	1/1/2024
The Euclid Chemical Company	Eucon CIA	1/1/2025

H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
ChemMasters (f/k/a Vexcon Chem., Inc.)	Safe-Cure 2000	1/1/2025
ChemMasters (f/k/a Vexcon Chem., Inc.)	Safe-Cure Clear DR	1/1/2027
Dayton Superior Corp.	Resin Cure w/Dye J11WD	1/1/2026
Dayton Superior Corp.	White Resin Cure J10W	1/1/2026
Kaufman Products, Inc.	Thinfilm 420 w/Dye	1/1/2025
Kaufman Products, Inc.	Thinfilm 450	1/1/2025
Spec Chem, LLC	Harris Emulsion Konkure Clear	1/1/2025
Spec Chem, LLC	Harris Super White Konkure Emulsion	1/1/2025
Spec Chem, LLC	PaveCure Rez	1/1/2025
Spec Chem, LLC	PaveCure Rez White	1/1/2025
W.R. MEADOWS, INC.	1100 w/Red Fugitive Dye	1/1/2025
W.R. MEADOWS, INC.	1250-WHITE	1/1/2025

I. Not currently used.

J. Not currently used.

Qualified Products List



K. BEARING STRIP (RUBBER-BACKED UHMV-PE)

For use with "deck over backwall" expansion. Adhesive shall be as recommended by the manufacturer of the non-slip bearing strip.

<u>Manufacturer:</u>	<u>Product:</u>
Korolath of New England, Inc.	Korolath UHMW Rubber Backed
Mitsubishi Chemical Advanced Material	Tivar 1000 Rubber Backed
Röchling Engineering Plastics	Polystone M Rubber Backed

L. Not currently used

M. EXTRUDED POLYSTYRENE (XPS) RIGID FOAM

For use as a filler material in forming concrete joints and between concrete sections.

<u>Manufacturer:</u>	<u>Product:</u>
Dow Building Solutions	STYROFOAM
GreenGuard	Extruded Polystyrene Insulation Board
Owens Corning	Foamular 250

SECTION 526 - CONCRETE CRACK SEALERS

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS *

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Dayton Superior	Pro-Poxy 100	1/1/2027
Kaufman Products, Inc.	SurePoxy HMLV	1/1/2024
MAPEI Corporation	Epojet	1/1/2024
Sika Corporation	Sikadur 35, Hi-Mod LV (Warm Weather)	1/1/2024
Sika Corporation	Sikadur 52 (Cool Weather)	1/1/2024
Sika Corporation	Sikadur Crack Fix	1/1/2024

** Refer to Appendix B to assist with selection of appropriate product.*

Qualified Products List



B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) CRACK SEALER (For Concrete Bridge Decks)

Manufacturer:

ChemMasters
KwikBond Polymers
KwikBond Polymers
Sika Corporation
Transpo Industries, Inc.
Transpo Industries, Inc.

Product:

Duraguard 401
KBP 204 HMWM Monomer Healer/Sealer Penetrant
KBP 204 P Seal HMWM Healer/Sealer Penetrant
SikaPronto 19 TF
Sealate T-70 MX-30
Sealate T-70-10

C. EPOXY FLOOD COAT CRACK SEALER

Manufacturer:

The Euclid Chemical Company

Product:

Dural 50 LM

SECTION 528 - PRESTRESSED CONCRETE MEMBERS

A. HIGH STRENGTH, IMPACT-RESISTANT NON-SHRINK GROUT

Manufacturer:

Dayton Superior
Kaufman Products, Inc.

Product:

Sure-Grip High Performance Grout
Suregrout 106

SECTION 530 - WATERPROOFING CONCRETE SURFACES

A. Not currently used.

B. Not currently used.

Qualified Products List



SECTION 532 - ANTI-GRAFFITI COATINGS

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

When specified, use a water repellent product listed under 534.B.

SECTION 534 - WATER REPELLENT

A. Not currently used

B. ITEM 534.3 - SILANE/SILOXANE

These products can be used when ambient and surface temperatures are 40 degrees and above.

<u>Manufacturer:</u>	<u>Product:</u>
Advanced Chemical Technologies, Inc.	SIL-ACT ATS-100 LV
ChemMasters (f/k/a Vexcon Chem., Inc.)	Aquanil Plus 100
ChemMasters (f/k/a Vexcon Chem., Inc.)	Powerseal 40
Foundation Armor, LLC.	Armor SX 5000 EXT-100

C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER

These products can be used when ambient and surface temperatures are 20 degrees and above.

<u>Manufacturer:</u>	<u>Product:</u>
Advanced Chemical Technologies, Inc.	SIL-ACT ATS-42A
ChemMasters (f/k/a Vexcon Chem., Inc.)	Certi-Vex Penseal 244 100%
ChemMasters (f/k/a Vexcon Chemicals, I	Certi-Vex Penseal 244 40% AIM

SECTION 538 - BARRIER MEMBRANE

A. ITEM 538.1 - BARRIER MEMBRANE, PEEL AND STICK

Products listed under 538.B may also be used for this item.

For horizontal application only. Qualified for use on buried structures.

<u>Manufacturer:</u>	<u>Product:</u>
Chase Construction Products	10 AN Easy Pave, 713A Primer, 104CM Mastic

(Membrane application temperature 40 Degrees F and rising)

Qualified Products List



B. ITEM 538.2 - BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES

These products may also be used for Item 538.1.

<u>Manufacturer:</u>	<u>Product:</u>
Chase Corporation	Royston 104 AHT Membrane, Roybond 740 Primer, & 104-CM (Mastic)
GCP Applied Technologies Inc.	Bituthene Lo Temp Membrane, Bituthene Primer WP-3000, & Bituthene Liquid Membrane
Protecto Wrap Co.	Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic

(Membrane application temperature 25 Degrees F and rising)

C. PROTECTION BOARD FOR BARRIER MEMBRANE

Use on membraned surfaces to be backfilled against.

<u>Manufacturer:</u> (non-exclusive)	<u>Product:</u>
W.R. Meadows	1.0" Closed-Cell Extruded Polystyrene Board Sealtight PC-2

D. Not currently used

E. HOT RUBBERIZED ASPHALT

For use along curb line with Items 538.5 and 538.6

<u>Manufacturer:</u>	<u>Product:</u>
Crafco, Inc.	Ultraseal 3750 MTO
Henry Company	790-11
Henry Company	790-11 MTO Grade
McAsphalt Industries, Limited	MACSEAL BDM (f/k/a Bemalastic 1213 BDM)
Soprema	COLPHENE H
Watson Bowman Acme	Wabo Expandex

F. ITEM 538.5 - BARRIER MEMBRANE, HEAT WELDED

<u>Manufacturer:</u>	<u>Product:</u>
IKO Industries Ltd.	Armour Bridge/Pont 4.5 mm & IKO MOD-BIT Primer *
Soprema	Antirock Membrane & Antirock, or Elastocol 500, Primer *

Important: Required pavement overlay laydown temperature (Hot Bituminous Pavement-538.3.3.5): 310-350 deg. F

** Tack Coat not specified.*

Qualified Products List



G. ITEM 538.6 - BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD

Manufacturer:

IKO Industries Ltd.
Soprema

Product:

Armour Bridge/Pont 4.5 mm & IKO MOD-BIT Primer *
Antirock Membrane & Antirock, or Elastocol 500, Primer *

Important: Required pavement overlay laydown temperature (Hot Bituminous Pavement-538.3.3.5): 310-350 deg. F

* Tack Coat not specified.

H. Not currently used

I. MOISTURE METER (For concrete bridge decks)

Meters must be calibrated annually. A copy of the calibration certification shall accompany the meter.

Manufacturer:

Sovereign Chemicals Limited
Tramex, Ltd.

Product:

Dual Probe Moisture Master
CME4 (Newer version of Tramex Concr. Encounter)

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - WATERSTOP, NH TYPE 1

Manufacturer:

BoMetals, Inc
BoMetals, Inc
Greenstreak (Sika)
Paul Murphy Plastics
Vinylex

Product:

DB-4316
FR-4316
721 (Ribbed Split), 741 (Dumbbell)
FR-4316 (Ribbed)
D4316 (Dumbbell)

B. ITEM 541.2 - WATERSTOP, NH TYPE 2

Manufacturer:

BoMetals, Inc.
Greenstreak (Sika)
Paul Murphy Plastics
Vinylex

Product:

RCB-938BR
703 (Ribbed), 723 (Ribbed Split)
CR-6316 (Ribbed), SR-6316 (Ribbed Split)
RSB6316 (Ribbed Split)

Qualified Products List



C. ITEM 541.3 - WATERSTOP, NH TYPE 3

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc	DBC6-614
Greenstreak (Sika)	730 (Ribbed Split)
Greenstreak (Sika)	780 (Ribbed), 757 (Dumbbell)
Paul Murphy Plastics	CR-6380 (Ribbed), SR-6380 (Ribbed Split)
Vinylex	RB6-14 (Ribbed), DB6-14 (Dumbbell)

D. ITEM 541.4 - WATERSTOP, NH TYPE 4

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	DBC6-938
Greenstreak (Sika)	696 (Ribbed), 753 (Dumbbell)
Greenstreak (Sika)	725 (Split Dumbbell)
Vinylex	RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell-split)

E. ITEM 541.5 - WATERSTOP, NH TYPE 5

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	RF-814
Greenstreak (Sika)	769 (Ribbed)

SECTION 544 - REINFORCEMENT FOR CONCRETE

A. SYNTHETIC FIBER REINFORCEMENT

These products are qualified as being able to meet the requirements of Section 544 of the NHDOT Standard specifications for Road and Bridge Construction when used to control shrinkage cracking (micro) and replace temperature reinforcing (macro).

<u>Manufacturer:</u>	<u>Product:</u>	
FORTA Corporation	FORTA FERRO	Structural - Macro Fibers
GCP Applied Technologies Inc.	Strux 90/40 Fibers	Structural - Macro Fibers
Master Builders Solutions (f/k/a BASF)	MasterFiber F 70	Nonstructural - Micro Fibers
Master Builders Solutions (f/k/a BASF)	Masterfiber MAC100	Structural - Macro Fibers
Sika Corporaton	SikaFiber Force MS 20	Structural - Macro Fibers
The Euclid Chemical Company	TUF-STRAND MAXTEN	Structural - Macro Fibers
The Euclid Chemical Company	TUF-STRAND SF	Structural - Macro Fibers

Qualified Products List



SECTION 550 - STRUCTURAL STEEL

A. FAST SETTING GROUTS FOR ANCHOR BOLTS (Under 550.3.15.4.2 / Bolts NOT under tension)

These products are qualified as being able to meet the requirements of Section 550 of the Standard Specifications for Road and Bridge Construction, paragraph 550.3.15.4.2.

<u>Manufacturer:</u>	<u>Product:</u>
CGM, Inc.	Super Por Rok
Dayton Superior	Sure-Grip High Performance Grout
Kaufman Products, Inc.	SureGrout 106
Silpro LLC	SilProGrout 424
The Quikrete Companies, LLC	Commercial Grade FastSet Non-Shrink Grout

B. STICK WAX FOR HIGH STRENGTH A325 & A490 FASTENERS

<u>Manufacturer:</u>	<u>Product:</u>
Castrol Industrial of North America	Castrol Iloform Stick Wax (f/k/a Castrol Stick Wax Lubricant)
CRC Industries, Inc.	TrueTap Wax Stick
Relton	Stick Kut

SECTION 559 - ASPHALTIC PLUG EXPANSION JOINT, ASPHALTIC PLUG CRACK

A. ITEM 559.4 - ASPHALTIC PLUG EXPANSION JOINT (formerly "Elastomeric Plug Type Expansion Joint")

<u>Manufacturer:</u>	<u>Product:</u>
Crafco, Inc.	Matrix 501 Asphaltic Plug Bridge Joint System w/ Matrix 501Mastic
D.S. Brown	Matrix 502 Asphaltic Expansion Joint System w/ Matrix 502 binder
Dynamic Surface Applications, Ltd.	Thorma-Joint Asphaltic Plug Expansion Joint w/ BJ Super Binder
Watson Bowman Acme Corp.	Wabo Expandex Asphaltic Plug Joint System w/Expandex Binder

B. Not currently used

Qualified Products List



C. ITEM 559.41 - ASPHALTIC PLUG FOR CRACK CONTROL (formerly "Modified Elastomeric Plug Type Expansion Joint - 6" wide)

Use the binder and aggregate from one of the joint systems that are listed under 559.A.

D. ITEM 559.412 - REPAIR ASPHALTIC PLUG EXPANSION JOINT (Formerly Modified Elastomeric Plug Type Expansion Joint - 20" Wide)

Use the binder and aggregate from one of the joint systems that are listed under 559.A.

E. CLOSED CELL EXPANSION MATERIAL

<u>Manufacturer:</u>	<u>Product:</u>
Chase Construction Products	EVA-SEAL 30/Flexseal
Chase Construction Products	Metazeal
Chase Construction Products	Phyzite 380 w/HALS
Polyset Company	Ply-Seal
Polyset Company	Ply-Seal FB, HALS
Polyset Company	Ply-Seal FG
Watson Bowman Acme	Wabo Evazote UV

SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	Delastic "CV" and "CA" Series
Watson Bowman Acme	WA Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. STRIP SEAL EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	A2R-400 (SSA2 Steelflex rail profile)
Watson Bowman Acme	SE-400 ("A" steel edge member)

Qualified Products List



B. PREFAB. MODULAR BRIDGE JOINT SYSTEM

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	D Series
Watson Bowman Acme	STM Series

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

<u>Manufacturer:</u>	<u>Product:</u>
Fabreeka Products Co.	Flexible Drain Trough
Thermoid of H.B.D. Industries, Inc.	3-ply PNT 50 Saniwhite 3/64 x FS

SECTION 562 - SILICONE JOINT SEALANT

A. SILICONE JOINT SEALANT (Non-sag, for vertical and horizontal joints).

The use of primer is required with these products unless waived by the Engineer.

<u>Manufacturer:</u>	<u>Product:</u>
Dow	Dowsil 888 (f/k/a Dow Corning 888)
Sika Corporation	Sikasil-728 NS

B. SILICONE JOINT SEALANT (Self-leveling, for horizontal joints)

The use of primer is required with these products unless waived by the Engineer.

<u>Manufacturer:</u>	<u>Product:</u>
Dow	Dow Corning 890-SL
Sika Corporation	Sikasil-728 SL

SECTION 593 - GEOTEXTILES

A. ITEM 593.ABC - GEOTEXTILES

See the following tables for qualified products and their application, strength, and structure.

A. ITEM 593.ABC - GEOTEXTILES

A= Application

- 1 = Subsurface Drainage
- 2 = Separation
- 3 = Stabilization
- 4 = Permanent Erosion Control

B= Strength Class

- 0 = Class 0 (Extra High Strength)
- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

C= Structure

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

Note: In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
	Expiration Date	A Application	B Strength Class	C Structure
ACF Environmental Inc.				
ACF M100N	1/1/2025	2,3	2,3	2
ACF M400N	1/1/2025	2,3	1,2,3	2
ACF N045N	1/1/2025	1,2,3	3	1
ACF N060N	1/1/2025	1,2,3,4	2,3	1
ACF N070N	1/1/2025	1,2,3,4	2,3	1
ACF N080N	1/1/2025	1,2,3,4	1,2,3	1
ACF S200N	1/1/2025	2,3	3	3
ACF S250N	1/1/2025	2,3	2,3	3
ACF S300N	1/1/2025	2,3	1,2,3	3
Advanced Drainage Systems, Inc				
	Expiration Date	A Application	B Strength Class	C Structure
0451T	1/1/2025	1,2,3	3	1
0601T	1/1/2025	1,2,3,4	2,3	1
0801T	1/1/2025	1,2,3,4	1,2,3	1
104F	1/1/2025	2,3	2,3	2
200W	1/1/2025	2,3	3	3
315W	1/1/2025	2,3	1,2,3	3
Anita Plastics Inc.				
	Expiration Date	A Application	B Strength Class	C Structure
ANITA-200W	1/1/2026	2,3	3	3
ANITA-315W	1/1/2026	2,3	1,2,3	3

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Manufacturer & Product		Qualified For		
Carthage Mills	Expiration Date	A Application	B Strength Class	C Structure
FX-45HS	1/1/2024	1,2,3	3	1
FX-60HS	1/1/2024	1,2,3,4	2,3	1
FX-66	1/1/2024	2,3	1,2,3	3
FX-80HS	1/1/2024	1,2,3,4	1,2,3	1
Hanes Geo Components	Expiration Date	A Application	B Strength Class	C Structure
TerraTex GS-250	1/1/2024	2,3	2,3	3
TerraTex GS-270	1/1/2024	2,3	2,3	3
TerraTex HD	1/1/2024	2,3	1,2,3	3
TerraTex N04.5	1/1/2024	1,2,3	3	1
TerraTex N06	1/1/2024	1,2,3,4	2,3	1
TerraTex N07	1/1/2024	1,2,3,4	2,3	1
TerraTex N08	1/1/2024	1,2,3,4	1,2,3	1
TerraTex N16	1/1/2024	1,2,3,4	0,1,2,3	1
L & M Supply Co.	Expiration Date	A Application	B Strength Class	C Structure
LM 1000 NT	1/1/2024	1,2,3,4	1,2,3	1
LM 1200 NT	1/1/2024	1,2,3,4	1,2,3	1
LM 1600 NT	1/1/2024	1,2,3,4	0,1,2,3	1
LM 200 NT	1/1/2024	2,3	3	3
LM 2199 FW	1/1/2024	2,3	2,3	2
LM 315 NT	1/1/2024	2,3	1,2,3	3
LM 450 NT	1/1/2024	1,2,3	3	1
LM 600 NT	1/1/2024	1,2,3,4	2,3	1
LM 800 NT	1/1/2024	1,2,3,4	1,2,3	1

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Manufacturer & Product		Qualified For		
Propex Operating Company, LLC	Expiration Date	A Application	B Strength Class	C Structure
Geotex 250ST	1/1/2024	2,3	2,3	3
Geotex 315 ST	1/1/2026	2,3	1,2,3	3
Geotex 401	1/1/2025	1,2,3	3	1
Geotex 501	1/1/2025	1,2,3	3	1
Geotex 601	1/1/2025	1,2,3,4	2,3	1
Geotex 701	1/1/2025	1,2,3,4	2,3	1
Geotex 801	1/1/2025	1,2,3,4	1,2,3	1
SKAPS Industries	Expiration Date	A Application	B Strength Class	C Structure
GT116	1/1/2025	1,2,3,4	0,1,2,3	1
GT142	1/1/2025	1,2,3	3	1
GT160	1/1/2025	1,2,3,4	2,3	1
GT170	1/1/2025	1,2,3,4	2,3	1
GT180	1/1/2024	1,2,3,4	1,2,3	1
SW200	1/1/2026	2,3	3	3
SW315	1/1/2026	2,3	1,2,3	3
W180	1/1/2026	2,3	3	3
W250	1/1/2026	2,3	2,3	3
W270	1/1/2026	2,3	2,3	3

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C= Structure

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- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

Note: In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
TenCate Geosynthetics Americas	Expiration Date	A Application	B Strength Class	C Structure
Mirafi 140N	1/1/2024	1,2,3	3	1
Mirafi 160N	1/1/2024	1,2,3,4	2,3	1
Mirafi 180N	1/1/2024	1,2,3,4	1,2,3	1
Mirafi 500X	1/1/2024	2,3	3	3
Mirafi 550X	1/1/2024	2,3	2,3	3
Mirafi 600X	1/1/2024	2,3	1,2,3	3
Mirafi FW402	1/1/2025	2,3	1,2,3	2
Mirafi FW404	1/1/2026	2,3	1,2,3	2
Mirafi RS280i	1/1/2026	2,3	1,2,3	2
Terram Geosynthetics Pvt. Ltd.	Expiration Date	A Application	B Strength Class	C Structure
T1300	1/1/2024	1,2,3,4	2,3	1
T1800	1/1/2024	1,2,3,4	1,2,3	1
T900	1/1/2026	2,3	3	1
Texel Technical Materials, Inc.	Expiration Date	A Application	B Strength Class	C Structure
TEXEL 045C	1/1/2026	1,2,3,4	3	1
TEXEL 060C	1/1/2026	1,2,3,4	2,3	1
TEXEL 080C	1/1/2026	1,2,3,4	1,2,3	1
TEXEL 160C	1/1/2024	1,2,3,4	0,1,2,3	1

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- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

C= Structure

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

Note: In addition to being listed here, manufacturers of geotextiles are required to participate in and maintain compliance with the AASHTO National Transportation Product Evaluation Program that audits producers of geotextiles.

Manufacturer & Product		Qualified For		
US Fabrics	Expiration Date	A Application	B Strength Class	C Structure
US 120NW	1/1/2024	1,2,3	3	1
US 160NW	1/1/2024	1,2,3,4	2,3	1
US 200	1/1/2024	2,3	3	3
US 205NW	1/1/2024	1,2,3,4	1,2,3	1
US 250	1/1/2024	2,3	2,3	3
US 315	1/1/2024	2,3	1,2,3	3
US 380NW	1/1/2024	1,2,3,4	0,1,2,3	1
Willacoochee Industrial Fabrics, Inc	Expiration Date	A Application	B Strength Class	C Structure
WINFAB 200W	1/1/2024	2,3	3	3
WINFAB 2199	1/1/2026	2,3	2,3	2
WINFAB 2404	1/1/2025	2,3	1,2,3	2
WINFAB 250W	1/1/2024	2,3	2,3	3
WINFAB 315W	1/1/2024	2,3	1,2,3	3
WINFAB 450N	1/1/2025	1,2,3	3	1
WINFAB 600N	1/1/2025	1,2,3,4	2,3	1
WINFAB 700N	1/1/2025	1,2,3,4	2,3	1
WINFAB 800N	1/1/2025	1,2,3,4	1,2,3	1

Qualified Products List



SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES

A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES

Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.

<u>Manufacturer:</u>	<u>Product:</u>
FORTA Corporation	FORTA FERRO
GCP Applied Technologies Inc.	Strux 90/40 Fibers
Master Builders Solutions (f/k/a BASF)	Masterfiber MAC100
Sika Corporation	SikaFiber Force MS 20

SECTION 606 - GUARDRAIL

A. SYNTHETIC OFFSET BLOCKS

Block dimensions must be as indicated on the standard plan sheet for the item.

<u>Manufacturer:</u>	<u>Product:</u>
Mondo Polymer Technologies, Inc.	MondoBlock - GB14SH1
Mondo Polymer Technologies, Inc.	MondoBlock - GB14SH2
Valtir, LLC f/k/a Trinity Hwy Products	8" King MASH16 Composite Block

B. ITEM 606.9512 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 2

<u>Manufacturer:</u>	<u>Product:</u>
Barrier Systems, Inc.	Universal TAU - II *
Barrier Systems, Inc.	Universal TAU - M **
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard Elite *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard II *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard M10 **
Valtir, LLC f/k/a Trinity Hwy Products	ShorTRACC *
Valtir, LLC f/k/a Trinity Hwy Products	TRACC *

* = NCHRP 350 Compliant ** = MASH 2016 Compliant

Qualified Products List



C. ITEM 606.9513 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 3

<u>Manufacturer:</u>	<u>Product:</u>
Barrier Systems, Inc.	Universal TAU - II *
Barrier Systems, Inc.	Universal TAU - M **
Industry AMS s.r.l.	Hercules Crash Cushion **
TrafFix Devices, Inc.	Delta Crash Cushion **
Valtir, LLC f/k/a Trinity Hwy Products	FasTRACC *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard Elite *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard Elite M10 (24") **
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard Elite M10 Wide (69") **
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard HS *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard II *
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard M Wide **
Valtir, LLC f/k/a Trinity Hwy Products	QuadGuard M10 **
Valtir, LLC f/k/a Trinity Hwy Products	REACT M **
Valtir, LLC f/k/a Trinity Hwy Products	TRACC *
Valtir, LLC f/k/a Trinity Hwy Products	WideTRACC *
Work Area Protection Corporation	SCI SmartCushion TL-3 SCI 100GM **

* = NCHRP 350 Compliant ** = MASH 2016 Compliant

D. ITEM 606.9522 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2

Note 1: Sand or liquid filled devices may be used when allowed by specification. A product listed under, B. ITEM 606.9512 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 2 may also be used.

Note 2: NCHRP 350 compliant attenuation devices not listed here but which meet Department specifications may be used if approved by the Engineer.

<u>Manufacturer:</u>	<u>Product:</u>
Valtir, LLC f/k/a Trinity Hwy Products	N - E - A - T *

* = NCHRP 350 Compliant ** = MASH 2016 Compliant

E. ITEM 606.9523 - TEMPORARY IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3

Note 1: Sand or liquid filled devices may be used when allowed by specification. When sand or liquid filled devices are not allowed by specification, use a product listed under, C. ITEM 606.9513 - TEMPORARY IMPACT ATTENUATION DEVICE (Redirective), Test Level 3.

Note 2: NCHRP 350 compliant attenuation devices not listed here but which meet Department specifications may be used if approved by the Engineer.

Plastic Safety Systems, Inc.	CrashGard **
TrafFix Devices, Inc.	Big Sandy MASH **
Valtir, LLC f/k/a Trinity Hwy Products	Energite III **

* = NCHRP 350 Compliant ** = MASH 2016 Compliant

Qualified Products List



F. through I. These categories are not currently listed.

SECTION 609 - CURBS

A. NON-SHRINK, NON-METALLIC GROUT (Cement Mortar for Bedding Curb; Bridge)

<u>Manufacturer:</u>	<u>Product:</u>
A.H. Harris	Harris Construction Grout
Dayton Superior	1107 Advantage Grout
Dayton Superior	Sure-Grip High Performance Grout
Five Star Products	Structural Concrete
Kaufman Products, Inc.	SureGrout 106
Silpro LLC	SilProGrout 424

B. POLYESTER FIBERS FOR BITUMINOUS CURB

<u>Manufacturer:</u>	<u>Product:</u>
Advanced Fiber Solutions, Inc.	P1251 Polyester Fibers
Advanced Fiber Solutions, Inc.	P440 Fibers, White or Black
Kapejo Inc.	BoniFibers Type B

SECTION 616 - TRAFFIC SIGNALS

A. SAW CUT LOOP SEALANT

<u>Manufacturer:</u>	<u>Product:</u>
3M	Bondo Traffic P-606 Flexible Loop Sealer
Durant Performance Coatings	Stat-A-Flex Loop Sealer
RAI Products, Inc.	Pro-Seal 6006

Qualified Products List



SECTION 619 - MAINTENANCE OF TRAFFIC

A. TEMPORARY RAISED PAVEMENT MARKERS

<u>Manufacturer:</u>	<u>Product:</u>
Apex Universal, Inc.	Apex Model 932 Chip Seal Marker *
Astro Optics Corp.	Model TPM
Pexco Davidson Traff. Control Products	Halftrack Marker
Pexco Davidson Traff. Control Products	RPM Durable Pavement Marker
Pexco Davidson Traff. Control Products	Super TOM
Pexco Davidson Traff. Control Products	Super TRPM
Pexco Davidson Traff. Control Products	TOM Road Marker *
Pexco Davidson Traff. Control Products	TRPM Chip Seal Marker *

* Not for use on Interstates or other divided highway facilities.

SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS

A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)

These products are considered to be "wet reflective"

<u>Manufacturer:</u>	<u>Product:</u>
3M	Stamark Wet Reflective Removable Tape Series 710 - White & Yellow
Briteline Technologies, Inc.	Deltaline TWR - White & Yellow

B. Not Currently Used

C. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, LEVEL I

<u>Manufacturer:</u>	<u>Product:</u>
3M	Series 380-I ES - White & Yellow
3M	Stamark High Performance Tape Series 380AW - White & Yellow
Briteline Technologies, Inc.	Deltaline XRP - White & Yellow

Qualified Products List



D. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, LEVEL II

Manufacturer:

3M
Briteline Technologies, Inc.
Briteline Technologies, Inc.

Product:

Series 380-I ES - White & Yellow
Brite-Line Series 1000 Durable Tape - White & Yellow
Deltaline HDX - White & Yellow

E. Not currently used

F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)

Note: This category is for temporary obliteration of pavement markings.

Manufacturer:

3M
Advance Traffic Markings
Brite-Line Technologies, Inc.

Product:

3M Stamark Removable Black Line Mask 715
ATM 280 Hide A Line
Deltaline BTR

SECTION 645 - EROSION CONTROL

A. through G. These categories are not currently used.

H. TACKIFIERS

Prior to use, verify conformance with applicable environmental regulations.

Manufacturer:

Eastern Products, Inc.
HydroStraw, LLC
Profile Products, LLC
Profile Products, LLC

Product:

Ecotak OP
FiberRX
ConTack
Fiberbond Ultra

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

Qualified Products List



I. Not currently used.

J. Not currently used

K. ITEM 645.42 - TEMPORARY SLOPE MATTING TYPE B (Wildlife friendly)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	AEC Premier Coconut FibreNet	1/1/2024
American Excelsior Company	AEC Premier Straw FibreNet Double Net	1/1/2024
American Excelsior Company	AEC Premier Straw FibreNet Single Net	1/1/2024
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2024
American Excelsior Company	Curlex I FibreNet	1/1/2025
American Excelsior Company	Curlex II FibreNet	1/1/2025
American Excelsior Company	Curlex NetFree	1/1/2026
East Coast Erosion Blankets, LLC	ECC-2B	1/1/2024
East Coast Erosion Blankets, LLC	ECS-2B	1/1/2024
Enviroscape ECM, Ltd.	S1000BD	1/1/2026
Erosion Control Blanket	C32BD	1/1/2025
Erosion Control Blanket	S31BD	1/1/2025
Erosion Control Blanket	S32 BD	1/1/2025
Erosion Tech	ETRS-1-BN	1/1/2026
Erosion Tech	ETRS-2-BN	1/1/2025
Erosion Tech	ETSC-7030-BN	1/1/2025
North American Green	SC150BN	1/1/2024
Western Excelsior	SR-1 All Natural	1/1/2026

L. Not currently used

Qualified Products List



M. ITEM 645.44 - TEMPORARY SLOPE MATTING TYPE D (Wildlife friendly)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	AEC Premier Coconut FibreNet	1/1/2024
American Excelsior Company	AEC Premier Straw FibreNet Double Net	1/1/2024
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2024
American Excelsior Company	Curlex I FibreNet	1/1/2025
American Excelsior Company	Curlex II FibreNet	1/1/2025
East Coast Erosion Blankets, LLC	ECC-2B	1/1/2024
East Coast Erosion Blankets, LLC	ECS-2B	1/1/2024
Erosion Control Blanket	C32BD	1/1/2025
Erosion Control Blanket	S32BD	1/1/2025
Erosion Tech	ETRS-2-BN	1/1/2024
Erosion Tech	ETSC-7030-BN	1/1/2025
North American Green	SC150BN	1/1/2024

N. ITEM 645.45 - PERMANENT CHANNEL MATTING TYPE A

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	TriNet Recyclelex	1/1/2025
East Coast Erosion Blankets, LLC	ECP-3	1/1/2026
North American Green	P550 TRM	1/1/2026

O. Not currently used

P. ITEM 645.611 - BONDED FIBER MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
Hamilton Manufacturing Co	Evolution	1/1/2024
Hamilton Manufacturing Co.	X9000	1/1/2024
Profile Products LLC	EcoMatrix EFM	1/1/2024
Profile Products LLC	HydroStraw Bonded Fiber Matrix	1/1/2024
Profile Products LLC	ProMatrix EFM	1/1/2024

Q. ITEM 645.612 - FIBER REINFORCED MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
LSC Environmental Products, LLC	EarthGuard Fiber Matrix *	1/1/2024
Profile Products LLC	Flexterra HP-FGM *	1/1/2024

**Contains polyacrylamide (PAM): Not to be applied directly to, or within 100' of surface water without prior written approval from the NH DES.*

Qualified Products List



R. ITEM 645.613 - STABILIZED MULCH MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	Bindex BFM	1/1/2024

S. ITEM 645.471 - TEMPORARY CHANNEL MATTING TYPE A (Wildlife friendly)

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	AEC Premier Coconut FibreNet	1/1/2024
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2024
American Excelsior Company	Curlex II FibreNet	1/1/2025
American Excelsior Company	Curlex III FibreNet	1/1/2024
Erosion Control Blanket	C32BD	1/1/2025
Erosion Tech	ETSC-7030-BN	1/1/2025

T. ITEM 645.472 - TEMPORARY CHANNEL MATTING TYPE B

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	AEC Premier Coconut FibreNet	1/1/2024
American Excelsior Company	Curlex High Velocity FibreNet	1/1/2024
American Excelsior Company	Curlex III FibreNet	1/1/2024
East Coast Erosion Blankets, LLC	ECC-2	1/1/2025
Erosion Control Blanket	C32BD	1/1/2025
Erosion Control Blanket	P42	1/1/2025
Erosion Control Blanket	PC42	1/1/2025

SECTION 718 - RETROREFLECTIVE SHEETING

A. Not currently used

B. Not currently used

Qualified Products List



C. RETROREFLECTIVE SHEETING - TYPE IV

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	3M High Intensity Prismatic Reflective Sheeting Series 3930 - White, Yellow, Red, Orange, Blue, Green, Brown	1/1/2024
Avery Dennison	T-6500 Series - White, Yellow, Blue, Green, Red, Brown	1/1/2024
Nippon Carbide Industries Inc.	Nikkalite High Intensity Micro-Prismatic 94000 Series - White, Yellow, Red, Orange, Blue, Green, Brown	1/1/2024
ORAFOL Americas, Inc.	Oralite 5900 Series - White, Yellow, Red, Green, Blue, Brown, Orange	1/1/2024

Expiration dates represent a yearly series/product review, expiration dates do not reflect the date of test for an individual series color, only NTPEP test data is considered.

D. RETROREFLECTIVE SHEETING - TYPE VIII

Unless otherwise specified, Type VIII, and Type IX can be used interchangeably.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	3M Prismatic Reflective Sheeting Series 3920 - Fluorescent Yellow, Fluorescent Yellow-Green	1/1/2024
3M	3M Prismatic Reflective Sheeting Series 3940 - White, Red, Green, Brown	1/1/2024
Avery Dennison	T-7500 MVP Series - White, Yellow, Blue, Green, Fluorescent Yellow, Fluorescent Yellow-Green, Fluorescent Orange	1/1/2024

Expiration dates represent a yearly series/product review, expiration dates do not reflect the date of test for an individual series color, only NTPEP test data is considered.

E. RETROREFLECTIVE SHEETING - TYPE IX

Unless otherwise specified, Type VIII and Type IX can be used interchangeably.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	3M Diamond Grade VIP Reflective Sheeting Series 3980 - Fluorescent Yellow, Fluorescent Yellow-Green	1/1/2024
3M	3M Diamond Grade VIP Reflective Sheeting Series 3990 - White, Yellow, Red, Blue, Green	1/1/2024
Avery Dennison	OmniCube T-11500 Series - White, Yellow, Blue, Green, Red, Brown, Fluorescent Yellow, Fluorescent Yellow-Green, Fluorescent Orange	1/1/2024
ORAFOL Americas, Inc.	Oralite 7900 Series - White, Yellow, Blue, Green, Florescent Yellow, Florescent Yellow-Green	1/1/2024

Expiration dates represent a yearly series/product review, expiration dates do not reflect the date of test for an individual series color, only NTPEP test data is considered.

F. Not currently used

Qualified Products List



G. OVERLAY FILM

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	Electrocut 1170 Series/3930 White - Yellow, Blue, Green, Red, Orange, Brown	1/1/2024
Avery Dennison	OL-2000 Series/T11500 White - Yellow, Blue, Green, Red, Brown	1/1/2024
Avery Dennison	OL-2000 Series/T6500 White - Blue, Red, Brown	1/1/2024

Expiration dates represent a yearly series/product review, expiration dates do not reflect the date of test for an individual series color, only NTPEP test data is considered.

H. RETROREFLECTIVE SHEETING - TYPE XI

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	3M Diamond Grade DG3 Reflective Sheeting Series 4080 - Fluorescent Yellow, Fluorescent Yellow-Green, Fluorescent Orange	1/1/2024
3M	3M Diamond Grade DG3 Reflective Sheeting Series 4000 - White, Yellow, Red, Blue, Green, Brown	1/1/2024
Avery Dennison	OmniCube T-11500 Series - White, Yellow, Blue, Green, Red, Brown, Fluorescent Yellow, Fluorescent Yellow-Green, Fluorescent Orange	1/1/2024

Expiration dates represent a yearly series/product review, expiration dates do not reflect the date of test for an individual series color, only NTPEP test data is considered.

QPL Appendix A

520.A, RAPID-HARDENING PATCHING MATERIAL Product Details (1/5/2023)

Manufacture Name & Product Name	Form (F) Self-Level (S-L) Shotcrete (SC) Trowel (T)	Application Temperature (°F)		Lift Thickness (In, Neat (N), Extended (E) Lift Thickness (Minimum to Maximum) Deeper Applications - Refer to Manufacturer		Final Set Time (Min.)	Initial Set Time (Min.)	Compressive Strength (psi)				Product Use	Number of Parts	Type	
		Substrate	Ambient	Overhead	Vertical			Horizontal	28d	7d	1 d				3 hr
CTS Cement Manufacturing Corp. Rapid Set DOT Concrete Mix	(F) (T)	35-100	45-90	NA	NA	*42	*40	7250	6710	5950	5140	2980	H	1	PM
CTS Cement Manufacturing Corp. Rapid Set DOT Repair Mix	(F) (T)	35-100	45-90	NA	NA	*20	*17	11300	10930	9750	7940	5660	H	1	PM
Dayton Superior DOT Rapid Repair	(T)	50-90	50-90	NA	NA	*24-28	*31-35	5830	5050	4590	3600	1600	H	1	C
Dayton Superior HD_50	(F) (S-L) (T)	40-120	40-100	NA	NA	*22	*20	10400	9170	7340	5580	2600	H	1	PM
Kaufman Products, Inc. Duracrete II VOF T	(T)	45-85	45-85	(N) 1/4-2	(N) 1/4-3 & up to 4	*45-46	*40-41	9160	6620	4080	3050	450	VO	1	C
MAPEI Corp. Planitop 18 ES	(T)	45-95	45-95	NA	NA	<110	>45	7120	5930	5210	4320	N/A	H	1	C
MAPEI Corp. Planitop 18 TG	(T)	32-95	32-95	NA	NA	*34	*17-25	13940	12400	8300	6250	1830	H	1	C
MAPEI Corp. Planitop XS	(T)	41-85	41-85	(N) F.E.- 4	Small repairs only	< 60	> 40	5570	5040	4330	4120	2320	HVO	1	PM
Master Builders Solutions MasterEmaco T 1060	(T)	40-85	40-85	NA	NA	*33-35	*25-30	7950	6710	5950	5420	4450	H	1	C
Phoscrete Corporation Phoscrete HC	(F)	-15-90	-15-105	(N) ≥1-4	≥1 (No Max.)	22	15	7480	7150	6920	5240	4820	HVO	2	C
The Quikrete Companies, LLC Commercial Grade FastSet DOT Mix (No. 1244-56)	(F) (T)	>32	>32	NA	NA	*35-40	*15-30	11580	10000	6680	6010	4450	H	1	C
The Quikrete Companies, LLC Commercial Grade FastSet (CGFS) DOT Mix Extended	(F) (T)	>32	>32	NA	NA	*50-60	*25-45	8980	8250	5900	4760	2130	H	1	C
The Quikrete Companies, LLC Rapid Road Repair (No. 1242-50 & 1242-51)	(F) (T)	>32	>32	NA	NA	*38	*24-33	10530	9030	6160	2690	2340	H	1	C
The Quikrete Companies, LLC Rapid Road Repair - Extended (No. 1242-80)	(F) (S-L) (T)	>32	>32	NA	NA	*25	*10-15	11550	8840	6970	2070	1600	H	1	C
The Quikrete Companies, LLC Rapid Road Repair - CA	(F) (T)	>32	>32	NA	NA	*35-43	*33	9810	8960	6800	4310	1020	H	1	C
The Quikrete Companies, LLC Rapid Road Repair - CA Extended	(F) (T)	>32	>32	NA	NA	*60	*30-55	7250	6040	5120	3550	1970	H	1	C
Silpro LLC SilproRapid	(F) (T)	50-90	50-90	NA	NA	*17-22	*15-17	11220	9990	8630	5410	3160	H	1	C
SpecChem RepCon V/O	(F) (T)	45-85	45-85	(N) 1/8-2	(N) 1/8-2	*50-75	*32-42	10270	9890	8370	6400	200	VO	1	C
The Euclid Chemical Company Euco Repair SCC Fast	(F) (T)	45-95	45-95	(N) ≥ 1	(N) ≥ 1 Full Depth	*44	*40	9430	7820	4570	3100	2760	HVO	1	C
The Euclid Chemical Company Versaspeed 100	(F) (T)	35-95	35-95	NA	NA	*25-35	*15-20	11130	7430	4940	4270	3460	H	1	C
The Euclid Chemical Company Euco Repair V100	(T)	45-90	60-90	(N) 1/8-2	(N) 1/8-4	*14	*10-12	6160	5530	3700	3140	1470	VO	1	PM
Western Material & Design FasTrac 246	(F) (T)	40-90	40-90	NA	(E) ≥ 1	*47-75	*30-65	9420	7690	6070	5640	N/A	HV	1	C

Notes: Concrete must be sound and fully cured before applying. Follow ACI 305 & 306 for hot or cold weather applications. All values are for the product tested in "neat" form unless otherwise specified.

All compressive strengths are per NTPEP lab results. Only the set times w/ * are NTPEP or 3rd party lab test values.

Abbreviations: C = Cementitious, F.E. = Featheredge, H = Horizontal Use, O = Overhead Use, NA = Not Applicable, P = Polymer, PM = Polymer-Modified, V = Vertical Use.

526.A, EPOXY FOR NON-MOVING CRACKS Product Details (1/5/2023)

TYPE (AASHTO M 235)		GRADE (AASHTO M 235)		CLASS (AASHTO M 235)		
<p>I – For use in bonding hardened concrete to non-hardened concrete in non-load-bearing applications (e.g. crack repair on a bridge curb)</p> <p>IV – For use in bonding hardened concrete to hardened concrete in load-bearing applications (e.g. crack repair on a bridge deck)</p>		<p>1 – Low viscosity 2,000 cps Max. (e.g. For fine to medium cracks)</p> <p>2 – Medium viscosity 2,000 – 10,000 cps. (e.g. For medium to large cracks)</p>		<p>A - For use below 40°F [4°C], with the lowest allowable temperature to be defined by the manufacturer of the product.</p> <p>B - For use between 40 and 60°F [4 and 15°C].</p>		
		<p>3 – Non-sagging consistency 1/4 inch consistency max. (e.g. For large cracks and small patchwork)</p>		<p>C - For use above 60°F [15°C], with the highest allowable temperature to be defined by the manufacturer of the product.</p>		
Manufacturer & Product	Type	Grade	Viscosity @ 73° F (cps)	Class	Gel Time @ 73° F (Minutes)	Use & Comments (per manufacturer)
Dayton Superior Pro-Poxy 100	I, IV	1	610	C	30	2-component, moisture tolerant epoxy adhesive. Gravity feed or pressure-inject.
Kaufman Products, Inc. SurePoxy HMLV	I, IV	1	740	C	30	2-component, moisture-insensitive, epoxy resin system. Gravity feed or pressure-inject.
MAPEI Epojet	I, IV	1	410	C	30	2-component, moisture tolerant epoxy resin. Gravity feed or pressure-inject.
Sika Corporation Sikadur 35, Hi-Mod LV	I	1	666	C	32	2-component, moisture-tolerant, epoxy resin adhesive. Gravity feed or pressure inject.
Sika Corporation Sikadur 52	I	1	213	C	40	2-component, moisture-tolerant, epoxy adhesive. Gravity feed or pressure inject.
Sika Corporation Sikadur Crack Fix	I	1	666	C	32	2-component, moisture-tolerant, epoxy resin adhesive. Gravity feed or pressure inject.

Non-moving cracks are those that have been determined to undergo insignificant changes in width from loading, such as crack expansion due to beam flexure, temperature fluctuations (e.g. thermal expansion & contraction), or other processes.