



New Hampshire Department of Transportation
Bureau of Materials and Research

Qualified Products List

Updated January 2, 2020

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
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 - B. Not Currently Used
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- J. Not currently used
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- L. Not currently used
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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 * * *	1/1/2022
Astec, Inc.	Double Barrel Green System *	1/1/2021
Gencor Industries Inc.	Gencor Ultrafoam GX2 *	1/1/2022
Maxam Industries, Inc.	MAXAM AquaBlack Warm Mix System *	1/1/2021
Meeker Equipment Co., Inc.	Meeker WMA System *	1/1/2022
Sonneborn, LLC	SonneWarmix RT * *	1/1/2025
Stansteel	Stansteel Accu-Shear WMA System *	1/1/2022
Terex Roadbuilding	Terex WMA System *	1/1/2021

* = 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)	1/1/2022
Right / Pointe, LLC	RP Joint Adhesive (formerly, Joint Adhesive JTS-063)	1/1/2021

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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	1/1/2021
Crafco, Inc.	Road Saver 201	1/1/2021
Dalton Enterprises, Inc.	Crack-Rite HP3405	1/1/2021
Right / Pointe, LLC	RP 3405	1/1/2022
W.R. Meadows	Hi-Spec	1/1/2021

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	1/1/2021
Deery Brand (Crafco Inc.)	Deery 101	1/1/2021
McAsphalt Industries	MACSEAL 6690-4 (formerly, BERAM 195 LM)	1/1/2021

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

<u>Manufacturer:</u>	<u>Product:</u>
Assoc. Pile & Fitting Corp	Super-Bite PAR-T Series
Assoc. Pile & Fitting Corp.	Hard-Bite HP 77600-B
Assoc. Pile & Fitting Corp.	Hard-Bite HP 77750-B
Assoc. Pile & Fitting Corp.	Hard-Bite HP 7780-B
DFP Foundation Products, LLC	Tuftpip Tufloy H-777

SECTION 511 - PREPARATION FOR CONCRETE BRIDGE DECK REPAIRS

A. Not Currently used

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SECTION 520 - PORTLAND CEMENT CONCRETE

A. RAPID-HARDENING PATCHING MATERIAL *

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
BASF	MasterEmaco T 1060 (formerly 10-60 Rapid Mortar)	1/1/2023
CTS Cement Manufacturing Corp.	Rapid Set DOT Concrete Mix	1/1/2021
CTS Cement Manufacturing Corp.	Rapid Set DOT Repair Mix	1/1/2021
Dayton Superior Corp.	HD 50	1/1/2021
Kaufman Products, Inc.	Duracrete II VOFT	1/1/2022
MAPEI Corporation	Planitop 18 ES	1/1/2021
MAPEI Corporation	Planitop 18 TG	1/1/2024
MAPEI Corporation	Planitop X	1/1/2021
MAPEI Corporation	Planitop XS	1/1/2023
Phoscrete Corporation	Phoscrete HC	1/1/2021
Quikrete	Commercial Grade FastSet DOT Mix (No.1244-56)	1/1/2021
Quikrete	Rapid Road Repair (No. 1242-50 & 1242-51)	1/1/2024
Quikrete	Rapid Road Repair Extended (No. 1242-80)	1/1/2021
Sika Corporation	SikaQuick 2500	1/1/2022
Sika Corporation	SikaQuick VOH	1/1/2021
Silpro LLC	SilproRapid	1/1/2021
Silpro LLC	SilproRepair VOH	1/1/2021
Spec Chem, LLC	RepCon V/O	1/1/2024
The Euclid Chemical Company	Euco Repair V100	1/1/2021
USG	Duracal Cement	1/1/2021

** 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>
BASF	MasterAir AE 200 (formerly Micro-Air)	1/1/2023
BASF	MasterAir AE 400	1/1/2023
BASF	MasterAir AE 90 (formerly MB AE 90)	1/1/2022
Fritz-Pak Corporation	Air Plus	1/1/2022
Fritz-Pak Corporation	Super Air Plus	1/1/2022
GCP Applied Technologies Inc.	Daravair 1000 (Daravair Pave 10)	1/1/2025
GCP Applied Technologies Inc.	Darex II AEA	1/1/2025
MAPEI Corp. (formerly, Gnl. Resces.Te	Polychem SA	1/1/2024
Sika Corporation	Sika AEA-14	1/1/2022
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	1/1/2023
The Euclid Chemical Company	Eucon Air Mac6	1/1/2024
The Euclid Chemical Company	Eucon Air Mix 200	1/1/2023
The Euclid Chemical Company	Eucon Air Mix 250	1/1/2023

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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>
BASF	MasterGlenium 3030	1/1/2024
BASF	MasterGlenium 7500 (formerly Glenium 7500)	1/1/2022
BASF	MasterGlenium 7620	1/1/2021
BASF	MasterPolyheed 1020 (formerly PolyHeed 1020)	1/1/2022
BASF	MasterPolyHeed 1725 (formerly PolyHeed)	1/1/2022
BASF	MasterPolyheed 997 (formerly Polyheed 997)	1/1/2023
BASF	MasterPozzolith 200 (formerly Pozzolith 200N)	1/1/2021
BASF	MasterPozzolith 322	1/1/2021
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	1/1/2022
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	1/1/2023
GCP Applied Technologies Inc.	Daracem 55	1/1/2021
GCP Applied Technologies Inc.	Daracem 65	1/1/2021
GCP Applied Technologies Inc.	EXP 950	1/1/2025
GCP Applied Technologies Inc.	MIRA 95	1/1/2023
GCP Applied Technologies Inc.	WRDA/HYCOL	1/1/2021
MAPEI Corp. (formerly, Gnl. Resces. Te	EVO 2500	1/1/2024
MAPEI Corp. (formerly, Gnl. Resces.Te	Polychem 850	1/1/2024
Sika Corporation	Plastocrete 161	1/1/2023
Sika Corporation	Plastocrete 250	1/1/2024
Sika Corporation	Sika ViscoFlow-2020	1/1/2024
Sika Corporation	Sikament 475	1/1/2021
Sika Corporation	Sikament AFM	1/1/2023
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	1/1/2023
The Euclid Chemical Company	Eucon WR-91	1/1/2025
The Euclid Chemical Company	Plastol 5000	1/1/2021
The Euclid Chemical Company	Plastol Ultra 209	1/1/2021

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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>
BASF	MasterPozzolith 200 (formerly Pozzolith 200N)	1/1/2021
BASF	MasterPozzolith 322	1/1/2021
BASF	MasterSet DELVO (formerly Delvo Stabilizer)	1/1/2021
BASF	MasterSet R 100 (formerly Pozzolith 100XR)	1/1/2024
BASF	MasterSet R 961 (formerly Pozzolith 961R)	1/1/2021
Fritz-Pak Corporation	Mini Delayed Set	1/1/2022
Fritz-Pak Corporation	Standard Delayed Set	1/1/2022
GCP Applied Technologies Inc.	Daratard 17	1/1/2021
GCP Applied Technologies Inc.	Recover	1/1/2021
GCP Applied Technologies Inc.	ZYLA R	1/1/2023
Sika Corporation	Plastocrete 161	1/1/2023
Sika Corporation	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	1/1/2021
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>
BASF	MasterGlenium 3030	1/1/2024
BASF	MasterGlenium 3400 (formerly Glenium 3400)	1/1/2024
BASF	MasterGlenium 7500 (formerly Glenium 7500)	1/1/2022
BASF	MasterGlenium 7620	1/1/2021
BASF	MasterGlenium 7700	1/1/2024
BASF	MasterGlenium 7710	1/1/2024
BASF	MasterPolyheed 1020 (formerly PolyHeed 1020)	1/1/2022
BASF	MasterPolyHeed 1725	1/1/2022
BASF	MasterPolyheed 997 (formerly Polyheed 997)	1/1/2021
BASF	MasterRheobuild 1000 (formerly Rheobuild 1000)	1/1/2021
Fritz-Pak Corporation	Supercizer 5	1/1/2022
GCP Applied Technologies Inc.	ADVA 140 (M)	1/1/2021
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 (formerly, EXP 684)	1/1/2021
GCP Applied Technologies Inc.	ADVA CAST 575	1/1/2021
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	1/1/2023
GCP Applied Technologies Inc.	EXP 950	1/1/2025
GCP Applied Technologies Inc.	MIRA 95	1/1/2025
MAPEI Corp. (formerly, Gnl. Resces. Te	EVO 2500	1/1/2024
MAPEI Corp. (formerly, Gnl. Resces.Te	Polychem 850	1/1/2024
Sika Corporation	Sika ViscoCrete 6100	1/1/2024
Sika Corporation	Sikament 475	1/1/2021
Sika Corporation	Sikament AFM	1/1/2023
Sika Corporation	ViscoCrete 1000	1/1/2022
The Euclid Chemical Company	Eucon MR	1/1/2025
The Euclid Chemical Company	Plastol 5000	1/1/2021
The Euclid Chemical Company	Plastol 6400	1/1/2023
The Euclid Chemical Company	Plastol Ultra 209	1/1/2021

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>
BASF	MasterLife CI 30 (formerly Rheocrete CNI)	1/1/2023
GCP Applied Technologies Inc.	DCI	1/1/2024
GCP Applied Technologies Inc.	DCI-S	1/1/2024
Sika Corporation	CNI	1/1/2021
The Euclid Chemical Company	Eucon CIA	1/1/2025

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H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
ChemMasters	Safe-Cure 2000	1/1/2022
Dayton Superior	Clear Resin Cure J11W	1/1/2021
Dayton Superior	White Resin Cure J10W (formerly D.S.S.C.C. White Resin Cure)	1/1/2021
Dayton Superior Corp.	Resin Cure with Dye J11WD	1/1/2021
Kaufman Products, Inc.	Thinfilm 420	1/1/2022
Kaufman Products, Inc.	Thinfilm 420 w/Dye	1/1/2022
Kaufman Products, Inc.	Thinfilm 450	1/1/2022
Spec Chem, LLC	Harris Emulsion Konkure Clear	1/1/2022
Spec Chem, LLC	Harris Super White Konkure Emulsion	1/1/2022
Spec Chem, LLC	PaveCure Rez	1/1/2022
Spec Chem, LLC	PaveCure Rez White	1/1/2022
Vexcon Chemicals, Inc.	Certi-Vex Envio Cure Clear 500	1/1/2022
Vexcon Chemicals, Inc.	Certi-Vex Envio Cure White 500	1/1/2022

I. Not currently used.

J. Not currently used.

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

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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	Sure-Inject J-56	1/1/2023
Kaufman Products, Inc.	SurePoxy HMLV	1/1/2023
MAPEI Corporation	Epojet	1/1/2023
Sika Corporation	Sikadur 35, Hi-Mod LV (Warm Weather)	1/1/2024
Sika Corporation	Sikadur 52 (Cool Weather)	1/1/2024

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

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

<u>Manufacturer:</u>	<u>Product:</u>
ChemMasters	Duraguard 401
KwikBond Polymers	KBP 204 HMWM Monomer Healer/Sealer Penetrant
KwikBond Polymers	KBP 204 P Seal HMWM Healer / Sealer Penetrant
Sika Corporation	SikaPronto 19 TF
Transpo Industries, Inc.	Sealate T-70 MX-30
Transpo Industries, Inc.	Sealate T-70-10

C. Epoxy Flood Coat Crack Sealer

<u>Manufacturer:</u>	<u>Product:</u>
The Euclid Chemical Company	Dural 50 LM

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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.

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

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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	Aquanil Plus 100
Foundation Armor, LLC.	Armor SX 5000 EXT-100
Vexcon Chemicals	Powerseal 40

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
Vexcon Chemicals	Certi-Vex Penseal 244 100%
Vexcon Chemicals	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)

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)

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C. PROTECTION BOARD FOR BARRIER MEMBRANE

Use on membraned surfaces to be backfilled against.

<u>Manufacturer:</u>	<u>Product:</u>
-	1.0" Closed-Cell Extruded Polystyrene Board
W.R. Meadows	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 (formerly 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.*

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

<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.*

H. Not currently used

Qualified Products List



I. MOISTURE METER (For concrete bridge decks)

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

<u>Manufacturer:</u>	<u>Product:</u>
Sovereign Chemicals Limited	Dual Probe Moisture Master
Tramex, Ltd.	CME4 (Newer version of Tramex Concr. Encounter)

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - WATERSTOP, NH TYPE 1

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc	DB-4316
BoMetals, Inc	FR-4316
Greenstreak (Sika)	721 (Ribbed Split), 741 (Dumbbell)
Paul Murphy Plastics	FR-4316 (Ribbed)
Vinylex	D4316 (Dumbbell)

B. ITEM 541.2 - WATERSTOP, NH TYPE 2

<u>Manufacturer:</u>	<u>Product:</u>
BoMetals, Inc.	RCB-938BR
Greenstreak (Sika)	703 (Ribbed), 723 (Ribbed Split)
Paul Murphy Plastics	CR-6316 (Ribbed), SR-6316 (Ribbed Split)
Vinylex	RSB6316 (Ribbed Split)

C. ITEM 541.3 - WATERSTOP, NH TYPE 3

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

Qualified Products List



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 of fully supported slabs.

<u>Manufacturer:</u>	<u>Product:</u>
BASF	Masterfiber MAC100
FORTA Corporation	FORTA FERRO
GCP Applied Technologies Inc.	Strux 90/40 Fibers
Sika Corporaton	SikaFiber Force MS 20

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
Quikrete	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 (formerly Castrol Stick Wax Lubricant)
CRC Industries, Inc.	TrueTap Wax Stick
Relton	Stick Kut

Qualified Products List



SECTION 559 - ASPHALTIC PLUG EXPANSION JOINT, ASPHALTIC PLUG CRACK

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

Manufacturer:

D.S. Brown

Dynamic Surface Applications, Ltd.

Watson Bowman Acme Corp.

Product:

Matrix 502 Asphaltic Expansion Joint System w/ Matrix 502 binder

Thorma-Joint Asphaltic Plug Expansion Joint w/ BJ Super Binder

Wabo Expandex Asphaltic Plug Joint System w/Expandex Binder

B. Not currently used

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

Manufacturer:

Chase Construction Products

Chase Construction Products

Chase Construction Products

Polyset Company

Polyset Company

Polyset Company

Watson Bowman Acme

Product:

EVA-SEAL 30/Flexseal

Metazeal

Phyzite 380 w/HALS

Ply-Seal

Ply-Seal FB, HALS

Ply-Seal FG

Wabo Evazote UV

Qualified Products List



SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

Manufacturer:

D.S. Brown
Watson Bowman Acme

Product:

Delastic "CV" and "CA" Series
WA Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. STRIP SEAL EXPANSION JOINT

Manufacturer:

D.S. Brown
Watson Bowman Acme

Product:

A2R-400 (SSA2 Steelflex rail profile)
SE-400 ("A" steel edge member)

B. PREFAB. MODULAR BRIDGE JOINT SYSTEM

Manufacturer:

D.S. Brown
Watson Bowman Acme

Product:

D Series
STM Series

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

Manufacturer:

Fabreeka Products Co.
Thermoid of H.B.D. Industries, Inc.

Product:

Flexible Drain Trough
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.

Manufacturer:

Dow Corning Corp.
Sika Corporation

Product:

Dow Corning 888
Sikasil-728 NS

Qualified Products List



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

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

Manufacturer:

Dow Corning Corp.
Sika Corporation

Product:

Dow Corning 890-SL (Self-leveling, for horizontal joints only)
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		
ACF Environmental Inc.	Expiration Date	A Application	B Strength Class	C Structure
ACF M100N	1/1/2022	2,3	2,3	2
ACF M400N	1/1/2022	2,3	1,2,3	2
ACF N045N	1/1/2022	1,2,3	3	1
ACF N060N	1/1/2022	1,2,3,4	2,3	1
ACF N070N	1/1/2022	1,2,3,4	2,3	1
ACF N080N	1/1/2022	1,2,3,4	1,2,3	1
ACF S200N	1/1/2022	2,3	3	3
ACF S250N	1/1/2022	2,3	2,3	3
ACF S300N	1/1/2022	2,3	1,2,3	3
Advanced Drainage Systems, Inc	Expiration Date	A Application	B Strength Class	C Structure
0451T	1/1/2022	1,2,3	3	1
0601T	1/1/2022	1,2,3,4	2,3	1
0801T	1/1/2022	1,2,3,4	1,2,3	1
104F	1/1/2022	2,3	2,3	2
200W	1/1/2022	2,3	3	3
315W	1/1/2022	2,3	1,2,3	3
Carthage Mills	Expiration Date	A Application	B Strength Class	C Structure
FX-45HS	1/1/2023	1,2,3	3	1
FX-60HS	1/1/2023	1,2,3,4	2,3	1
FX-66	1/1/2023	2,3	1,2,3	3
FX-80HS	1/1/2023	1,2,3,4	1,2,3	1

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Manufacturer & Product		Qualified For		
Hanes Geo Components	Expiration Date	A Application	B Strength Class	C Structure
TerraTex GS-250	1/1/2023	2,3	2,3	3
TerraTex GS-270	1/1/2021	2,3	2,3	3
TerraTex HD	1/1/2023	2,3	1,2,3	3
TerraTex N04.5	1/1/2023	1,2,3	3	1
TerraTex N06	1/1/2023	1,2,3,4	2,3	1
TerraTex N07	1/1/2023	1,2,3,4	2,3	1
TerraTex N08	1/1/2023	1,2,3,4	1,2,3	1
TerraTex N16	1/1/2023	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	1/1/2023	1,2,3,4	1,2,3	1
LM 1200 NT	1/1/2023	1,2,3,4	1,2,3	1
LM 1600 NT	1/1/2023	1,2,3,4	0,1,2,3	1
LM 200 NT	1/1/2023	2,3	3	3
LM 2199 FW	1/1/2023	2,3	2,3	2
LM 315 NT	1/1/2023	2,3	1,2,3	3
LM 450 NT	1/1/2023	1,2,3	3	1
LM 600 NT	1/1/2023	1,2,3,4	2,3	1
LM 800 NT	1/1/2023	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	1/1/2021	2,3	2,3	3
Geotex 315 ST	1/1/2023	2,3	1,2,3	3
Geotex 401	1/1/2022	1,2,3	3	1
Geotex 501	1/1/2022	1,2,3	3	1
Geotex 601	1/1/2022	1,2,3,4	2,3	1
Geotex 701	1/1/2022	1,2,3,4	2,3	1
Geotex 801	1/1/2022	1,2,3,4	1,2,3	1
SKAPS Industries	Expiration Date	A Application	B Strength Class	C Structure
GT116	1/1/2022	1,2,3,4	0,1,2,3	1
GT142	1/1/2022	1,2,3	3	1
GT160	1/1/2022	1,2,3,4	2,3	1
GT170	1/1/2022	1,2,3,4	2,3	1
GT180	1/1/2021	1,2,3,4	1,2,3	1
SW200	1/1/2023	2,3	3	3
SW315	1/1/2023	2,3	1,2,3	3
W180	1/1/2023	2,3	3	3
W250	1/1/2023	2,3	2,3	3
W270	1/1/2023	2,3	2,3	3

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- 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 North America	Expiration Date	A Application	B Strength Class	C Structure
Mirafi 140N	1/1/2022	1,2,3	3	1
Mirafi 160N	1/1/2021	1,2,3,4	2,3	1
Mirafi 180N	1/1/2021	1,2,3,4	1,2,3	1
Mirafi 500X	1/1/2023	2,3	3	3
Mirafi 550X	1/1/2023	2,3	2,3	3
Mirafi 600X	1/1/2021	2,3	1,2,3	3
Mirafi FW402	1/1/2022	2,3	3	2
Mirafi FW404	1/1/2022	2,3	1,2,3	2
Mirafi HP370	1/1/2022	2,3	1,2,3	2
Terram Geosynthetics Pvt. Ltd.	Expiration Date	A Application	B Strength Class	C Structure
T1300	1/1/2023	1,2,3,4	2,3	1
T1800	1/1/2023	1,2,3,4	1,2,3	1
T900	1/1/2023	2,3	3	1
Texel Technical Materials, Inc.	Expiration Date	A Application	B Strength Class	C Structure
TEXEL 045C	1/1/2021	1,2,3	3	1
TEXEL 060C	1/1/2021	1,2,3,4	2,3	1
TEXEL 080C	1/1/2021	1,2,3,4	1,2,3	1
TEXEL 160C	1/1/2021	1,2,3,4	0,1,2,3	1

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- 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		
Thrace-LINQ	Expiration Date	A Application	B Strength Class	C Structure
140EX	1/1/2022	1,2,3	3	1
150EX	1/1/2022	1,2,3,4	2,3	1
160EX	1/1/2021	1,2,3,4	2,3	1
180EX	1/1/2022	1,2,3,4	1,2,3	1
350EX	1/1/2021	1,2,3,4	0,1,2,3	1
GTF-250	1/1/2021	2,3	2,3	3
GTF-300	1/1/2021	2,3	1,2,3	3
GTF-500	1/1/2021	2,3	1,2,3	3
Willacoochee Industrial Fabrics, Inc	Expiration Date	A Application	B Strength Class	C Structure
WINFAB 200W	1/1/2021	2,3	3	3
WINFAB 2199	1/1/2021	2,3	2,3	2
WINFAB 2404	1/1/2022	2,3	1,2,3	2
WINFAB 250W	1/1/2021	2,3	2,3	3
WINFAB 315W	1/1/2021	2,3	1,2,3	3
WINFAB 450N	1/1/2022	1,2,3	3	1
WINFAB 600N	1/1/2022	1,2,3,4	2,3	1
WINFAB 700N	1/1/2022	1,2,3,4	2,3	1
WINFAB 800N	1/1/2022	1,2,3,4	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>
BASF	Masterfiber MAC100
FORTA Corporation	FORTA FERRO
GCP Applied Technologies Inc.	Strux 90/40 Fibers
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	Mondo Block
Trinity Highway Products	Modified King 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
Energy Absorption Systems, Inc.	Quadguard
Trinity Industries, Inc.	TRACC, WideTRACC, FastTRACC, ShortTRACC
Work Area Protection Corp.	SCI 100 GM

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

<u>Manufacturer:</u>	<u>Product:</u>
Barrier Systems, Inc.	Universal Tau-II
Energy Absorption Systems, Inc.	QuadGuard
Trinity Industries, Inc.	TRACC, WideTRACC, FastTRACC, ShortTRACC
Work Area Protection Corp.	SCI 100 GM

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

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.

<u>Manufacturer:</u>	<u>Product:</u>
Energy Absorbtion Systems, Inc.	N.E.A.T.

Qualified Products List



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

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.

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>	<u>Expiration Date:</u>
A.H. Harris	Harris Construction Grout	1/1/2021
Dayton Superior	1107 Advantage Grout	1/1/2021
Dayton Superior	Sure-Grip High Performance Grout	1/1/2021
Five Star Products	Structural Concrete	1/1/2021
Kaufman Products, Inc.	SureGrout 106	1/1/2021

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 LLC, Davidson Traffic Control	Halftrack Marker
PEXCO LLC, Davidson Traffic Control	RPM Durable Pavement Marker
PEXCO LLC, Davidson Traffic Control	TOM Road 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
Briteline Technologies, Inc.	Deltaline XRP - White & Yellow

D. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, LEVEL II

<u>Manufacturer:</u>	<u>Product:</u>
3M	Series 380-I ES - White & Yellow
Briteline Technologies, Inc.	Brite-Line Series 1000 Durable Tape - White & Yellow
Briteline Technologies, Inc.	Deltaline HDX - White & Yellow

Qualified Products List



E. Not currently used

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

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

<u>Manufacturer:</u>	<u>Product:</u>
3M	3M Stamark Removable Black Line Mask 715
Advance Traffic Markings	ATM 280 Hide A Line
Brite-Line Technologies, Inc.	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.

<u>Manufacturer:</u>	<u>Product:</u>
Eastern Products, Inc.	Ecotak OP
HydroStraw, LLC	FiberRX
Profile Products, LLC	ConTack
Profile Products, LLC	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.

I. Not currently used.

J. Not currently used

Qualified Products List



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	1/1/2022
American Excelsior Company	AEC Premier Straw Double Net FibreNet	1/1/2021
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2022
American Excelsior Company	Curlex I FibreNet	1/1/2022
American Excelsior Company	Curlex II FibreNet	1/1/2022
East Coast Erosion Blankets, LLC	ECC-2B	1/1/2021
East Coast Erosion Blankets, LLC	ECS-2B	1/1/2021
Enviroscape ECM, Ltd.	S1000BD	1/1/2021
Erosion Control Blanket	C32BD	1/1/2021
Erosion Control Blanket	S31BD	1/1/2021
Erosion Control Blanket	S32 BD	1/1/2021
North American Green	SC150BN	1/1/2021
Western Excelsior	SR-1 All Natural	1/1/2021

L. Not currently used

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	1/1/2022
American Excelsior Company	AEC Premier Straw Double Net FibreNet	1/1/2021
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2022
American Excelsior Company	Curlex I FibreNet	1/1/2022
American Excelsior Company	Curlex II FibreNet	1/1/2022
East Coast Erosion Blankets, LLC	ECC-2B	1/1/2021
East Coast Erosion Blankets, LLC	ECS-2B	1/1/2021
Erosion Control Blanket	C32BD	1/1/2021
Erosion Control Blanket	S31BD	1/1/2021
Erosion Control Blanket	S32BD	1/1/2021
North American Green	SC150BN	1/1/2021
Western Excelsior	SR1-All Natural	1/1/2021

N. ITEM 645.45 - PERMANENT CHANNEL MATTING TYPE A

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
East Coast Erosion Blankets, LLC	ECP-3	1/1/2021
East Coast Erosion Blankets, LLC	T-RECS	1/1/2021
North American Green	P550 TRM	1/1/2021

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Qualified Products List



O. Not currently used

P. ITEM 645.611 - BONDED FIBER MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
GeoEnviromental/Profile Products LLC	GeoMatrix SS	1/1/2021
GeoEnviromental/Profile Products LLC	GeoPerm BFM	1/1/2021
Hamilton Manufacturing Co	Evolution	1/1/2021
Hamilton Mnaufacturing Co.	X9000	1/1/2021
HydroStraw, LLC	HydroStraw Bonded Fiber Matrix	1/1/2021
Profile Products LLC	EcoAegis	1/1/2021
Profile Products LLC	EcoMatrix EFM	1/1/2021
Profile Products LLC	Hydro-Blanket BFM	1/1/2021
Profile Products LLC	ProMatrix EFM	1/1/2021

Q. ITEM 645.612 - FIBER REINFORCED MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
North American Green	Hydra CX2 *	1/1/2021
Profile Products LLC	COCO Flex ET-FGM *	1/1/2021
Profile Products LLC	Flexterra HP-FGM *	1/1/2021
Terra Novo Inc.	EarthGuard Fiber Matrix *	1/1/2021

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

R. ITEM 645.613 - STABILIZED MULCH MATRIX

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
American Excelsior Company	Bindex BFM	1/1/2021
GeoEnviromental/Profile Products LLC	GeoMatrix II	1/1/2021
Profile Products LLC	Terra Matrix SMM	1/1/2021

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	1/1/2022
American Excelsior Company	AEC Premier Straw/Coconut FibreNet	1/1/2022
American Excelsior Company	Curlex II FibreNet	1/1/2022
Erosion Control Blanket	C32BD	1/1/2021
Hanes Geo Components	Coirmat 780	1/1/2021

Qualified Products List



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	1/1/2022
East Coast Erosion Blankets, LLC	ECC-2	1/1/2021
Erosion Control Blanket	C32BD	1/1/2021
Erosion Control Blanket	P42	1/1/2021
Erosion Control Blanket	PC42	1/1/2021
Hanes Geo Components	Coirmat 780	1/1/2021

SECTION 718 - RETROREFLECTIVE SHEETING

A. Not currently used

B. Not currently used

C. RETROREFLECTIVE SHEETING - TYPE IV

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	High Intensity Prismatic Reflective Sheeting 3930	1/1/2021
Avery Dennison	T-6500	1/1/2021
Nippon Carbide Industries Inc.	Nikkalite Crystal Grade 94000 - White, Yellow, Red, Blue, Green	1/1/2021
ORAFOL Americas, Inc.	Oralite 5900 Series - White, Yellow, Red, Green, Blue, Brown, Orange	1/1/2021

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 3940	1/1/2021
Avery Dennison	T-7500 MVP	1/1/2021
Nippon Carbide Industries	Nikkalite Crystal Grade Reflective Sheeting 92000 Series	1/1/2021

Qualified Products List



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	Diamond Grade VIP Reflective Sheeting Series 3990	1/1/2021
Avery Dennison	OmniCube (T-11500) Series	1/1/2021
Avery Dennison	Omni-View T-9500	1/1/2021

F. Not currently used

G. OVERLAY FILM

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	Electrocut 1170 Series - Yellow, Blue, Green, Red	1/1/2021
Avery Dennison	OL-2000 Series - Yellow, Blue, Green, Red, Brown	1/1/2021

H. RETROREFLECTIVE SHEETING - TYPE XI

<u>Manufacturer:</u>	<u>Product:</u>	<u>Expiration Date:</u>
3M	3M Diamond Grade DG3 Reflective Sheeting Series 4000	1/1/2021
Avery Dennison	OmniCube (T-11500) Series	1/1/2021

QPL Appendix A

520.A, RAPID-HARDENING PATCHING MATERIAL Product Details (1/2/2020)

Manufacture Product name	Form (F) Self-Level (S-L) Shotcrete (SC) Trowel (T)	Application Temperature (°F)		Lift Thickness (Inches) For Deeper Applications Check with Manuf. min.-max.			Final Set Time (Minutes)	Initial Set Time (Minutes)	Compressive Strength (psi)					Product Use	Number of Components	Type
		Substr.	Ambient	Overhead	Vertical	Horizontal			28d	7d	1 d	3 hr	1 hr			
BASF MasterEmaco T1060	(T)	40-85	40-85	NA	NA	(N) 1/2-2 Aggregate ext.	*33-35	*25-30	7950	6710	5950	5420	4450	H	1	C
CTS Cement Manufacturing Corp. Rapid Set DOT Concrete Mix	(F),(T)	35-100	45-90	NA	NA	(N) 2-24	40	20	7520	7310	6170	5000	3390	H	1	PM
CTS Cement Manufacturing Corp. Rapid Set DOT Repair Mix	(F),(T)	35-100	45-90	NA	NA	(N) 1/2-4	40	20	13370	11640	9900	8620	5510	H	1	PM
Dayton Superior HD 50	(F)(S-L)(T)	40-120	40-100	NA	NA	(N) 1/2-2 (E) 2-6	25-30	15-20	7470	6660	5240	4540	3360	H	1	PM
Kaufman Products, Inc. Duracrete II VOF-T	(T)	45-85	45-85	(N) 1/4-2 up to 4	NA	NA	*45-46	*40-41	9160	6620	4080	3050	450	VO	1	C
MAPEI Corp. Planitop 18 ES	(T)	45-95	45-95	NA	NA	(N) 1/4-1 ≥1/2 Traffic	<110	>45	7120	5930	5210	4320	Not set up	H	1	C
MAPEI Corp. Planitop 18 TG	(T)	32-95	32-95	NA	NA	(N) 1/2-2 (E) 8	*34	*17-25	13940	12400	8300	6250	1830	H	1	C
MAPEI Corp. Planitop X	(T)	41-85	41-85	(N) F.E.-4	(N) F.E.-4	NA	< 25	> 6	7740	6250	4300	3490	2650	VO	1	C
MAPEI Corp. Planitop XS	(T)	41-85	41-85	(N) F.E.-4	(N) F.E.-4	Small repairs only	< 60	> 40	5570	5040	4330	4120	2320	HVO	1	PM
Phoscrete Corporation Phoscrete HC	(F)	-15-90	-15-105	(N) ≥1-4	≥1 (No Max.)	≥1 (No Max.)	22	15	7480	7150	6920	5240	4820	HVO	2	C
Quikrete Commercial Grade FastSet DOT Mix (No. 1244-56)	(F)	40-100	50-90	NA	NA	(N) 1/2-24 (E) 2-24	*35-40	*15-30	11580	10000	6680	6010	4450	H	1	C
Quikrete Rapid Road Repair (No. 1242-50 & 1242-51)	(F)	50-90	50-90	NA	NA	(N) 1/2-24 (E) 2-24	*38	*24-33	10530	9030	6160	2690	2340	H	1	C
Quikrete Rapid Road Repair - Extended (No. 1242-80)	(F)(S-L)(T)	50-90	50-90	NA	NA	≥2 (No Max.)	25-45	15-25	9510	7000	5490	2040	1920	H	1	C
Sika Corp. SikaQuick 2500	(T)	40-100	40-100	NA	NA	(N) 1/4-1 (E) 1-6, (M)	*40	*29	7480	6750	5120	4230	3230	H	1	C
Sika Corp. SikaQuick VOH	(T)	45-100	45 & Rising	(N) 1/8-2 (E) 1-2	NA	NA	30-40	20-25	4990	4060	3030	2590	1990	VO	1	PM
Silpro LLC SilproRapid	(F),(T)	50-90	50-90	NA	NA	(N) 1/4-1 (E) 1/4-6	*40	*27	8350	6910	6050	4370	3530	H	1	C
Silpro LLC SilproRepair VOH	(F),(T)	50-90	50-90	(N) 1/8-2 (E) 1-2	(N) 1/8-4 (E) 1-4	(N) 1/8-4 (E) 1-4	*35	*22	6390	5390	4310	2300	1170	HVO	1	C
SpecChem RepCon V/O	(F),(T)	45-85	45-85	(N) 1/8-2 (E) 1-2	(N) 1/8-2 (E) 1-4	NA	*50-75	*32-42	10270	9890	8370	6400	200	VO	1	C
The Euclid Chemical Company Euco Repair V100	(T)	45-90	60-90	(N) 1/8-2 (E) 1-4	(N) 1/8-4 (E) 1-4	NA	35	20	5460	4220	3140	2470	2030	VO	1	PM
USG Duracal Cement	(T)	≥ 32	≥ 32	NA	NA	(N) 2-6	60	20-35	8900	8600	6730	2550	1850	H	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 = 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 (1/2/2020)

TYPE (AASHTO M 235)		GRADE (AASHTO M 235)		CLASS (AASHTO M 235)		
<p>I – For use in bonding hardened concrete to 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>NOTE: The temperature referenced is usually that of the surface of the hardened concrete to which the bonding system is to be applied.</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>C - For use above 60°F [15°C], with the highest allowable temperature to be defined by the manufacturer of the product.</p>		
		<p>2 – Medium viscosity 2,000 – 10,000 cps. (e.g. For medium to large cracks)</p>				
		<p>3 – Non-sagging consistency 1/4 inch consistency max. (e.g. For large cracks and small patchwork)</p>				
Manufacturer & Product	Type	Grade	Viscosity @ 73° F (cps)	Class	Gel Time @ 73° F (Minutes)	Use & Comments (per manufacturer)
Dayton Superior Sure-Inject J-56	I, IV	1	518	B, C	21	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.

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.