

NEW

State of Maine**Master Agreement****Effective Date:** 05/07/19**Expiration Date:** 05/31/20**Master Agreement Description:** PREMARK Performed Thermoplastic Highway Marking Material**Buyer Information**

William Allen 207-624-7871 ext. NULL WJE.Allen@maine.gov

Issuer Information

SHARON KRECHKIN 207-624-3038 ext. sharon.krechkin@maine.gov

Requestor Information

Sharon Krechkin 207-624-3038 ext. sharon.krechkin@maine.gov

Authorized Departments17A TRANSPORTATION
ALL**Vendor Information****Vendor Line #:** 1**Vendor ID**

VC0000100004

Vendor Name

ENNIS-FLINT INC

Alias/DBA**Vendor Address Information**

4161 PIEDMONT PKWY STE 370

GREENSBORO, NC 27410

US

Vendor Contact Information

Lousia Wood

336-308-3776 ext.

Lwood@ennisflint.com

Commodity Information

Vendor Line #: 1

Vendor Name: ENNIS-FLINT INC

Commodity Line #: 1

Commodity Code: 66589

Commodity Description: PREMARK Performed Thermoplastic Highway Marking Material

Commodity Specifications:

Commodity Extended Description: PREMARK Performed Thermoplastic Highway Marking Material.

Quantity

0.00000

UOM

Unit Price

\$0.00

Delivery Days

0

Free on Board

Contract Amount

\$0.00

Service Start Date

Service End Date

Catalog Name

PreMark

Discount

0.0000 %

Discount Start Date

05/07/19

Discount End Date

05/31/20

TERMS& CONDITIONS
MA 190507-170

COMMODITY ITEM: PREMARK Performed Thermoplastic Highway Marking Material

CONTRACT PERIOD: May 16, 2019 through May 31, 2020. The State of Maine with vendor approval can opt to issue up to two (2) one (1) year extensions.

CONTACT PERSON: The contact person will help consumers place orders, inquire about orders that have not been delivered, all shipping issues, quality issues, and any issues pertaining to this Master Agreement. All orders not submitted through a DO will be sent through the contractor's contact person. **The contact person will be:** Louisa Wood **Tel:** 336-308-3776 **Email:** Lwood@ennisflint.com

EXTENSION OF CONTRACT: The Director of Procurement Services may, with the consent of the contractor extend the Contract period beyond the indicated expiration date.

CANCELLATION OF CONTRACT: The Division of Procurement Services reserves the right to cancel a contract with a thirty-day written notice OR cancel immediately if the contractor does not conform to terms and conditions and specifications of contract.

PRICES: Prices shown are with shipping terms of "Free on Board (FOB) – Destination". The State intends for this to mean that all goods are priced to include shipping charges, if any, to the State's desired location. The "FOB – Destination" shipping term is also intended to mean that the State shall not bear any responsibility for the goods in question until the State takes possession of them at the destination point of delivery. Prices are to remain firm for the duration of the contract period.

QUANTITIES: It is understood and agreed that the contract will cover the **actual quantities** required by State Agency over the length of the contract.

PROCUREMENT CARD: State policy requires vendors to accept the State of Maine Procurement Card (P-Card) as a form of payment, with very rare exceptions. Your company will be required to accept these cards. The pricing offered to the State of Maine shall be the final cost to the State of Maine regardless of payment method. No surcharge or other compensation will be allowed. The State of Maine reserves the right to reject your bid if you are unwilling to accept this condition.

ORDERING PROCEDURE: Delivery orders (DO) will be created in AdvantageME for all orders over \$5000.00. If a DO is used, the DO will be e-mailed to the email address set up in AdvantageME by the Vendor as a .pdf file. Orders less than \$5000.00 can be ordered using a DO or P-Card.

DELIVERY: The Contractor will be responsible for the delivery of material in first class condition at the point of delivery, and in accordance with good commercial practice. List of Delivery Addresses below. The Contractor must deliver to the following DOT locations: Scarborough, West Gardiner, Dixfield, Carmel and Presque Isle. The State will always have the option of picking up, in full unit quantities, lifts of ply form at the vendor's location.

QUARTERLY REPORT: The Division of Procurement Services **requires a quarterly report of sales** be faxed to 207-287-6578 within 30 days of the end of each calendar quarter. It will be the responsibility of the vendor to produce a quarterly report. The report must include the dollar value of goods purchased, broken down by Department as well as the total dollar value of purchases made by all Departments.

STATE OF MAINE

GENERAL TERMS AND CONDITIONS FOR GOODS AND/OR SERVICES UNDER BUYER PURCHASE ORDERS (BPOs) AND MASTER AGREEMENTS (MAs)

1. **DEFINITIONS:** The following definitions are applicable to these standard terms and conditions:
 - a. The term “Buyer” or “State” shall refer to the Government of the State of Maine or a person representing the Government of the State of Maine.
 - b. The term “Department” or “DAFS” shall refer to the State of Maine Department of Administrative and Financial Services.
 - c. The term “Bureau” or “BGS” shall refer to the State of Maine Bureau of General Services.
 - d. The term “Division” shall refer to the State of Maine Division of Purchases.
 - e. The term “Contractor”, “Vendor”, or “Provider” shall refer to the organization that is providing goods and/or services through the contract to which these standard terms and conditions have been attached and incorporated.
 - f. The term “Contract” or “Agreement” shall refer to the contract document to which these standard terms and conditions apply, taking the format of a Buyer Purchase Order (BPO) or Master Agreement (MA) or other contractual document that is mutually agreed upon between the State and the Contractor.

2. **WARRANTY:** The Contractor warrants the following:
 - a. That all goods and services to be supplied by it under this Contract are fit and sufficient for the purpose intended, and
 - b. That all goods and services covered by this Contract will conform to the specifications, drawing samples, symbols or other description specified by the Division, and
 - c. That such articles are merchantable, good quality, and free from defects whether patent or latent in material and workmanship, and
 - d. That all workmanship, materials, and articles to be provided are of the best grade and quality, and
 - e. That it has good and clear title to all articles to be supplied by it and the same are free and clear from all liens, encumbrances and security interest.

Neither the final certificate of payment nor any provision herein, nor partial nor entire use of the articles provided shall constitute an acceptance of work not done in accordance with this agreement or relieve the Contractor liability in respect of any warranties or responsibility for faulty material or workmanship. The Contractor shall remedy any defects in the work and pay any damage to other work resulting therefrom, which shall appear within one year from the date of final acceptance of the work provided hereunder. The Division of Purchases shall give written notice of observed defects with reasonable promptness.

3. **TAXES:** Contractor agrees that, unless otherwise indicated in the order, the prices herein do not include federal, state, or local sales or use tax from which an exemption is available for purposes of this order. Contractor agrees to accept and use tax exemption certificates when supplied by the Division as applicable. In case it shall ever be determined that any tax included in the prices herein was not required to be paid by Contractor, Contractor agrees to notify the Division and to make prompt application for the refund thereof, to take all proper steps to procure the same and when received to pay the same to the Division.

4. **PACKING AND SHIPMENT:** Deliveries shall be made as specified without charge for boxing, carting, or storage, unless otherwise specified. Articles shall be suitably packed to secure lowest

transportation cost and to conform to the requirements of common carriers and any applicable specifications. Order numbers and symbols must be plainly marked on all invoices, packages, bills of lading, and shipping orders. Bill of lading should accompany each invoice. Count or weight shall be final and conclusive on shipments not accompanied by packing lists.

5. DELIVERY: Delivery should be strictly in accordance with delivery schedule. If Contractor's deliveries fail to meet such schedule, the Division, without limiting its other remedies, may direct expedited routing and the difference between the expedited routing and the order routing costs shall be paid by the Contractor. Articles fabricated beyond the Division's releases are at Contractor's risk. Contractor shall not make material commitments or production arrangements in excess of the amount or in advance of the time necessary to meet delivery schedule, and, unless otherwise specified herein, no deliveries shall be made in advance of the Division's delivery schedule. Neither party shall be liable for excess costs of deliveries or defaults due to the causes beyond its control and without its fault or negligence, provided, however, that when the Contractor has reason to believe that the deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay will be given immediately to the Division. If the Contractor's delay or default is caused by the delay or default of a subcontractor, such delay or default shall be excusable only if it arose out of causes beyond the control of both Contractor and subcontractor and without fault of negligence or either of them and the articles or services to be furnished were not obtainable from other sources in sufficient time to permit Contractor to meet the required delivery schedule.

6. FORCE MAJEURE: The State may, at its discretion, excuse the performance of an obligation by a party under this Agreement in the event that performance of that obligation by that party is prevented by an act of God, act of war, riot, fire, explosion, flood or other catastrophe, sabotage, severe shortage of fuel, power or raw materials, change in law, court order, national defense requirement, or strike or labor dispute, provided that any such event and the delay caused thereby is beyond the control of, and could not reasonably be avoided by, that party. The State may, at its discretion, extend the time period for performance of the obligation excused under this section by the period of the excused delay together with a reasonable period to reinstate compliance with the terms of this Agreement.

7. INSPECTION: All articles and work will be subject to final inspection and approval after delivery, notwithstanding prior payment, it being expressly agreed that payment will not constitute final acceptance. The Division of Purchases, at its option, may either reject any article or work not in conformity with the requirements and terms of this order, or re-work the same at Contractor's expense. The Division may reject the entire shipment where it consists of a quantity of similar articles and sample inspection discloses that ten (10%) percent of the articles inspected are defective, unless Contractor agrees to reimburse the Division for the cost of a complete inspection of the articles included in such shipment. Rejected material may be returned at Contractor's risk and expense at the full invoice price plus applicable incoming transportation charges, if any. No replacement of defective articles of work shall be made unless specified by the Division.

8. INVOICE: The original and duplicate invoices covering each and every shipment made against this order showing Contract number, Vendor number, and other essential particulars, must be forwarded promptly to the ordering agency concerned by the Vendor to whom the order is issued. Delays in receiving invoice and also errors and omissions on statements will be considered just cause for withholding settlement without losing discount privileges. All accounts are to be carried in the name of the agency or institution receiving the goods, and not in the name of the Division of Purchases.

9. ALTERATIONS: The Division reserves the right to increase or decrease all or any portion of the work and the articles required by the bidding documents or this agreements, or to eliminate all or any portion of such work or articles or to change delivery date hereon without invalidating this Agreement. All such alterations shall be in writing. If any such alterations are made, the contract amount or amounts shall be adjusted accordingly. In no event shall Contractor fail or refuse to continue the performance of the work in providing of articles under this Agreement because of the inability of the parties to agree on an adjustment or adjustments.

10. TERMINATION: The Division may terminate the whole or any part of this Agreement in any one of the following circumstances:

- a. The Contractor fails to make delivery of articles, or to perform services within the time or times specified herein, or
- b. If Contractor fails to deliver specified materials or services, or
- c. If Contractor fails to perform any of the provisions of this Agreement, or
- d. If Contractor so fails to make progress as to endanger the performance of this Agreement in accordance with its terms, or
- e. If Contractor is adjudged bankrupt, or if it makes a general assignment for the benefit of its creditors or if a receiver is appointed on account of its insolvency, or
- f. Whenever for any reason the State shall determine that such termination is in the best interest of the State to do so.

In the event that the Division terminates this Agreement in whole or in part, pursuant to this paragraph with the exception of 8(f), the Division may procure (articles and services similar to those so terminated) upon such terms and in such manner as the Division deems appropriate, and Contractor shall be liable to the Division for any excess cost of such similar articles or services.

11. NON-APPROPRIATION: Notwithstanding any other provision of this Agreement, if the State does not receive sufficient funds to fund this Agreement and other obligations of the State, if funds are de-appropriated, or if the State does not receive legal authority to expend funds from the Maine State Legislature or Maine courts, then the State is not obligated to make payment under this Agreement.

12. COMPLIANCE WITH APPLICABLE LAWS: Contractor agrees that, in the performance hereof, it will comply with applicable laws, including, but not limited to statutes, rules, regulations or orders of the United States Government or of any state or political subdivision(s) thereof, and the same shall be deemed incorporated herein by reference. Awarding agency requirements and regulations pertaining to copyrights and rights in data. Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers and records of the Contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions. Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed. Compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h), section 508 of the Clean Water Act, (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (Contracts, subcontracts, and subgrants of amounts in excess of \$100,000). Mandatory standards and policies relating to energy efficiency which are

contained in the state energy conservation plan issued in compliance with Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

13. INTERPRETATION: This Agreement shall be governed by the laws of the State of Maine as to interpretation and performance.

14. DISPUTES: The Division will decide any and all questions which may arise as to the quality and acceptability of articles provided and installation of such articles, and as to the manner of performance and rate of progress under this Contract. The Division will decide all questions, which may arise as to the interpretation of the terms of this Agreement and the fulfillment of this Agreement on the part of the Contractor.

15. ASSIGNMENT: None of the sums due or to become due nor any of the work to be performed under this order shall be assigned nor shall Contractor subcontract for completed or substantially completed articles called for by this order without the Division's prior written consent. No subcontract or transfer of agreement shall in any case release the Contractor of its obligations and liabilities under this Agreement.

16. STATE HELD HARMLESS: The Contractor agrees to indemnify, defend, and save harmless the State, its officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, material men, laborers and other persons, firm or corporation furnishing or supplying work, services, articles, or supplies in connection with the performance of this Agreement, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by the Contractor in the performance of this Agreement.

17. SOLICITATION: The Contractor warrants that it has not employed or written any company or person, other than a bona fide employee working solely for the Contractor to solicit or secure this Agreement, and it has not paid, or agreed to pay any company, or person, other than a bona fide employee working solely for the Contractor any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon, or resulting from the award for making this Agreement. For breach or violation of this warranty, the Division shall have the absolute right to annul this agreement or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

18. WAIVER: The failure of the Division to insist, in any one or more instances, upon the performance of any of the terms, covenants, or conditions of this order or to exercise any right hereunder, shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant, or condition or the future exercise of such right, but the obligation of Contractor with respect to such future performance shall continue in full force and effect.

19. MATERIAL SAFETY: All manufacturers, importers, suppliers, or distributors of hazardous chemicals doing business in this State must provide a copy of the current Material Safety Data Sheet (MSDS) for any hazardous chemical to their direct purchasers of that chemical.

20. COMPETITION: By accepting this Contract, Contractor agrees that no collusion or other restraint of free competitive bidding, either directly or indirectly, has occurred in connection with this award by the Division of Purchases.

21. INTEGRATION: All terms of this Contract are to be interpreted in such a way as to be consistent at all times with this Standard Terms and Conditions document, and this document shall take precedence over any other terms, conditions, or provisions incorporated into the Contract.

SUPPLIER PART NUMBER	ITEM DESCRIPTION	EXTENDED DESCRIPTION	UNIT OF MEASURE	LIST PRICE	DELIVERY DAYS
8110101	SCHOOL, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$205.70	14
8120100	SCHOOL, 10 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$264.95	14
8130102	ONLY, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$132.15	14
8130104	STOP, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$131.05	14
8130105	SIGNAL, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$183.45	14
8130106	AHEAD, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$183.45	14
8130107	XING, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$137.95	14
8130108	RIGHT, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$143.50	14
8130109	LEFT, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$131.05	14
8130110	SLOW, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$131.05	14
8130113	LANE, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$136.05	14
8130114	PED, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$108.95	14
8130115	MPH, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$108.95	14
8130116	MERGE, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$188.10	14
8130117	BUS, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$108.95	14
8130120	EXIT, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$131.05	14
8130125	WEST, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$136.75	14
8130127	YIELD, 8ft x 8ft x 8ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$143.40	14
8130128	KEEP, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$145.45	14
8130129	CLEAR, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$153.35	14
8130145	BUMP, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$135.30	14
8130203	R, 6 ft 6 inch, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$75.95	14
8231002	Yield Line 24 x 36, 10 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$113.45	14
8231006	Yield Line 16 x 24, 10 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$98.95	14
8232503	Yield Line 12 x 18, 25 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$148.95	14
8330144	Combi Left/Straight/Right Arrow, 13ft 2in x 11ft 6in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$204.75	14
8330159	Straight Arrow Elong, Caltrans, 24ft x 3ft 6in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$192.55	14
8330182	Combi Left/Right Arrow, 8ft 2in x 11ft 6in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$170.65	14
8330240	Straight Arrow Standard, 9ft 10in x 3ft 3in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$159.20	14
8330248	Straight Arrow Elongated, 12ft x 1ft 8in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$160.70	14
8330251	Straight Arrow, Caltrans, 18ft x 3ft 6in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$304.25	14
8330252	Exit Ramp-Wrong Way- Arrow, 24ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$180.75	14
8430566	Lines White 24 x 3, 5 per pack	15LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$88.20	14
8431064	Lines White 12 x 3, 10 per pack	30LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$88.20	14
8431065	Lines White 16 x 3, 10 per pack	30LF/40SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$118.20	14
8431067	Lines White 18 x 3, 10 per pack	30LF/45SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$132.75	14
8432061	Lines White 6 x 3, 20 per pack	60LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$88.20	14
8432072	Lines White 5 x 3, 20 per pack	60LF/25SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$78.60	14
8433062	Lines White 8 x 2, 30 per pack	60LF/40SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$117.60	14
81301012	NORTH, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$180.00	14
81301013	SOUTH, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$180.00	14
81301062	EAST, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$131.05	14
89330268	Mini Straight Arrow, 6ft x 2ft 4in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$71.25	14
8110101CONT	SCHOOL-White w/border, 8ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$321.44	14
8110101Y	SCHOOL, YELLOW, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$213.75	14
8110101YCONT	SCHOOL-Yellow w/border, 8ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$331.17	14
8120002-(# or ltr)	Individual Letters or Numbers 10 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$50.15	14
8120100CONT	SCHOOL-White w/border, 10ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$468.65	14
8130002-(# or ltr)	Individual Letters or Numbers 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$40.15	14
8130102CONT	8ft ONLY w/ Border Contrast, 8ft x 9ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$204.19	14
8130104CONT	8ft STOP w/ Border Contrast, 8ft x 9ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$209.23	14
8130106CONT	8ft AHEAD w/ Border Contrast, 10ft x 9ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$272.79	14
8130107CONT	XING, White w/border, 8ft / 8ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$200.97	14
8130107Y	XING, YELLOW	PreMark Preformed Thermoplastic Pavement Markings	EA	\$141.20	14
8130107YCONT	XING-Yellow w/border, 8ft / 8ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$206.64	14
8130110Y	SLOW, YELLOW, 8 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$137.30	14

SUPPLIER PART NUMBER	ITEM DESCRIPTION	EXTENDED DESCRIPTION	UNIT OF MEASURE	LIST PRICE	DELIVERY DAYS
8150002-(# or ltr)	Individual Letters or Numbers 4 ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$31.35	14
8230100410IS-#	Interstate Shield, Red/White/Blue, 4ft x 10ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$474.45	14
8230100410US#	US Shield, Black/White, 4ft x 10ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$445.80	14
8230100615IS-#	Interstate Shield, Red/White/Blue, 6ft x 15ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$872.03	14
8230100615US-#	US Shield, Black/White, 6ft x 15ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$714.83	14
8230100820IS-#	Interstate Shield, Red/White/Blue, 8ft x 20ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$1,492.28	14
8230100836IS-#	Interstate Shield, Red/White/Blue, 8ft x 36ft	PreMark Preformed Thermoplastic Pavement Markings	PK	\$2,329.20	14
8230111HS	Yield Ahead Triangle 6 x 20	PreMark Preformed Thermoplastic Pavement Markings	EA	\$161.90	14
8230112HS	Yield Ahead Triangle 6 x 13	PreMark Preformed Thermoplastic Pavement Markings	EA	\$115.50	14
8230126HS	Speed Hump Marking 6 x 6, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$81.35	14
8330142L	Combi Arrow Standard Left, 13ft 1in x 7ft 4in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$166.95	14
8330142NB	Combi Arrow Standard Rev, 13ft 1in x 7ft 4in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$166.95	14
8330142R	Combi Arrow Standard Right, 13ft 1in x 7ft 4in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$166.95	14
8330143L	U-Turn Arrow Left, 10ft 4in x 7ft 9in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$176.10	14
8330149L	Combi Arrow Elongated Left, 20ft x 3ft 7in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$162.40	14
8330149NB	Combi Arrow Elongated Rev, 20ft x 3ft 7in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$162.40	14
8330149R	Combi Arrow Elongated Right, 20ft x 3ft 7in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$162.40	14
8330150NB	Turn Arrow Rev, Caltrans, 24ft x 6ft	PreMark Preformed Thermoplastic Pavement Markings	EA	\$243.95	14
8330152NB	Combi Arrow Rev, Caltrans, 24ft x 6ft 9in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$258.80	14
8330155NB	Lane Reduction Arrow Rev, 18ft x 5ft 8in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$238.20	14
8330157NB	Lane Reduction Arrow Rev, 17ft 6in x 5ft 6in	PreMark Preformed Thermoplastic Pavement Markings	EA	\$238.20	14
8330241L	Turn Arrow Standard Left, 8ft 2in x 6ft 3in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$184.60	14
8330241NB	Turn Arrow Standard Rev, 8ft 2in x 6ft 3in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$184.60	14
8330241R	Turn Arrow Standard Right, 8ft 2in x 6ft 3in, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$184.60	14
8330247L	Turn Arrow Elongated Left, 12ft x 3ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$185.10	14
8330247NB	Turn Arrow Elongated Rev, 12ft x 3ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$185.10	14
8330247R	Turn Arrow Elongated Right, 12ft x 3ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$185.10	14
8430566Y	Lines Yellow 24 x 3, 5 per pack	15LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$92.70	14
8431061CONT	Lines-White w/border, 6in x 3ft, 10 per pack	30LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$97.23	14
8431061YCONT	Lines-Yellow w/border, 6in x 3ft, 10 per pack	30LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$99.89	14
8431062CONT	Lines-White w/border, 8in x 3ft, 10 per pack	30LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$151.13	14
8431062YCONT	Lines-Yellow w/border, 8in x 3ft, 10 per pack	30LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$155.54	14
8431064CONT	Lines-White w/border, 12in x 3ft, 10 per pack	30LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$161.98	14
8431064Y	Lines Yellow 12 x 3, 10 per pack	30LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$92.70	14
8431067CONT	Lines-White w/border, 18in x 3ft, 5 per pack	15LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$129.57	14
8431560CONT	Lines-White w/border, 4in x 3ft, 15 per pack	45LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$113.33	14
8431560YCONT	Lines-Yellow w/border, 4in x 3ft, 15 per pack	45LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$116.62	14
8431572CONT	Lines-White w/border, 5in x 3ft, 15 per pack	45LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$129.78	14
8431572YCONT	Lines-Yellow w/border, 5in x 3ft, 15 per pack	45LF, PreMark Preformed Thermoplastic Pavement Markings	PK	\$133.42	14
8432061Y	Lines Yellow 6 x 3, 20 per pack	60LF/30SQFT, PreMark Preformed Thermoplastic Pavement Markings	PK	\$92.70	14
89150202HS	FHWA, ONLY, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$174.25	14
89150204HS	FHWA, STOP, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$174.25	14
89150207HS	FHWA, XING, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$174.25	14
89150213HS	FHWA, LANE, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$174.25	14
89150214HS	FHWA, PED, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$147.55	14
89150248HS	FHWA, BIKE, 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$174.25	14
89160002HS-(#or ltr)	Individual Letters or Numbers 24 inch	PreMark Preformed Thermoplastic Pavement Markings	EA	\$18.10	14
89180102HS-(#or ltr)	Individual Letters or Numbers 12 inch	PreMark Preformed Thermoplastic Pavement Markings	EA	\$8.20	14
89180121HS	FIRE LANE, 12 inch x 12 inch	PreMark Preformed Thermoplastic Pavement Markings	EA	\$59.75	14
89180135HS	NO PARKING, 12 inch x 12 inch	PreMark Preformed Thermoplastic Pavement Markings	EA	\$67.70	14
89190002HS-(#or ltr)	Individual Letters or Numbers 5 inch	PreMark Preformed Thermoplastic Pavement Markings	EA	\$6.55	14
89230223(+)HS	Bicycle Rider, 8ft x 4ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$189.55	14
89230226HS	Pedestrian Symbol, 8ft, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$155.30	14
89230230HS	Handicap Kit White on Blue 48 x 48, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$175.20	14
89230232HS	Handicap Kit White on Blue 45 x 45, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$166.80	14
89230237HS	Handicap Kit White on Blue 40 x 40, 2 per pack	PreMark Preformed Thermoplastic Pavement Markings	PK	\$136.90	14

SUPPLIER PART NUMBER	ITEM DESCRIPTION	EXTENDED DESCRIPTION	UNIT OF MEASURE	LIST PRICE	DELIVERY DAYS
89230520HS	Handicap Symbol White 39 inch, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$185.10	14
89230524(+)HS	Bicycle Rider, 6ft 6in x 3ft 4in, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$400.45	14
89230525(+)HS	Bicycle Rider, 4ft x 2ft, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$274.70	14
89230536BHS	Handicap Symbol Blue 28 inch, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$145.20	14
89230536HS	Handicap Symbol White 28 inch, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$145.20	14
89230576(+)HS	Bike symbol, 6ft x 3ft 4in, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$435.75	14
89230577(+)HS	Bicycle Loop Detector, 3ft 7in x 12ft, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$238.60	14
89330259(+)HS	Mini Combi Arrow, 6ft x 2ft 1i, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$130.50	14
89330274(+)HS	Mini Turn Arrow, 5ft 6in x 4ft 2in, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$85.90	14
89434080BKHS	Lines Black 2 x 3, 40 per pack	120LF/20SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$65.50	14
No Dump-12x12	NO DUMPING... Blue/White, 12in x 12in, 15 per pack	12 inch x 12 inch, custom wording, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$251.09	14
No Dump-29x5	NO DUMPING... Blue/White, 29 in x 5in, 15 per pack	29 inch x 5 inch, Custom Wording, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$251.09	14
PM300100(+)CONT	8ft Turn Arrow w/Border Contrast, 8ft x 9ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$155.54	14
PM600100	Lines White 4 x 3, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$88.20	14
PM600101	Lines Yellow 4 x 3, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$94.50	14
PM600102	Lines White 8 x 3, 15 per pack	45LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$88.20	14
PM600103	Lines Yellow 8 x 3, 15 per pack	45LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$94.50	14
PM600107	Lines Blue 4 x 3, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$94.50	14
PM600108	Lines Red 4 x 3, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$99.90	14
PM600109	Lines Orange 4 x 3, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$99.90	14
PM600200	Lines Blue 4 x 3, 30 per pack	90LF, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$94.50	14
PM600339	HOV Designated Lane, 13ft x 3ft 3in, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$214.60	14
PM600580	Lines White 4 x 2, 30 per pack	90LF/30SQFT, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$88.20	14
PM600700	8ft ONLY w/Block Contrast, 8ft x 9ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$411.95	14
PM600701	8ft AHEAD w/Block Contrast, 10ft x 9ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$500.29	14
PM600702-L	8ft Turn Arrow w/Block Contrast, 8ft x 9ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$411.95	14
PM600705	8ft STOP w/Block Contrast, 8ft x 9ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$411.95	14
PM600717	Lines Black (BKQ) 3 x 3, 40 per pack	120LF, PreMark Prefomed Thermoplastic Pavement Markings	PK	\$89.50	14
PM600722L	Shared Lane Symbol, Black 4ft w x 10ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$271.95	14
PM600723(+)	Bicycle Symbol, Black 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$190.40	14
PM600728-BK	Straight Arrow, Black 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$190.40	14
PM600833(+)4in	Shared Lane Symbol, 9ft 4in x 3ft 4in, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$205.90	14
PM600833(+)3in	Shared Lane Symbol, 9ft 3in x 3ft 3in, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$205.90	14
PM600847(+)-BK	Bicycle Rider, Black 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$190.40	14
PM602004	Roundabout Fish-hook Arrow, 20ft x 8ft 7in	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$243.40	14
PM602005-6x2	Bike Lane Straight Arrow, 6ft x 2ft, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$68.50	14
PM602005	Bike Lane Straight Arrow, 6ft x 2ft 4in, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$68.50	14
PM602006(+)	Bicycle Rider, 6ft x 3ft 4in, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$400.45	14
PM6902756(+)	Bike Turn Arrow, 4ft 7in x 3ft 6in, 2 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$68.50	14
PMK8130103A	R X R, Kit FHWA 20 ft x 8ft	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$253.00	14
PMK8130103A-SP1	R X R, Kit Narrow, 20 ft x 6 ft 6 inch	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$253.00	14
PMSK6902757	FHWA, BIKE, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902758	FHWA, LANE, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902759	FHWA, ONLY, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902760	FHWA, STOP, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902761	FHWA, XING, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902762(+)	Bike Turn Arrow, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902763	Bike Straight Arrow, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902764(+)	Bike Straight/Turn Combi, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902766(+)	Bicycle Rider, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902767(+)	Bicycle Symbol, 4ft w x 7ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$136.00	14
PMSK6902768(+)	Shared Lane Symbol, 4ft w x 10ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$194.25	14
PMSK6902770(+)	Bike Loop Detector, 4ft w x 4ft h	PreMark Prefomed Thermoplastic Pavement Markings	EA	\$77.65	14
PMSK89430566LG	24in Linear 90 mil / 24in w x 36in h, 5 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$105.00	14
PMSK89431064LG	12in Linear 90 mil / 12in w x 36in h, 10 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$105.00	14
PMSK89431068LG	6in Linear 90 mil / 6in w x 36in h, 20 per pack	PreMark Prefomed Thermoplastic Pavement Markings	PK	\$105.00	14

Appendix D

STATE OF MAINE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES
DIVISION OF PROCUREMENT SERVICES

MUNICIPALITY POLITICAL SUBDIVISION and SCHOOL DISTRICT PARTICIPATION
CERTIFICATION

**RFQ # 17A 190412*303
PREMARK Performed Thermoplastic Highway Marking**

The Division of Procurement Services is committed to providing purchasing opportunities for **municipalities, political subdivisions and school districts** in Maine by allowing them access, through our vendors, to our contract pricing. A bidder's willingness to extend contract pricing to these entities will be taken into consideration in making awards.

Will you accept orders from political subdivisions and school districts in Maine at the prices quoted?

Yes

Yes, with conditions as follows:

No

Name of Company:

Ennis-Flint, Inc.

Address:

4161 Piedmont Pkwy, Ste. 370, Greensboro, NC 27410

Signature:



Zina Brooks - Director of Contract Administration

Date:

4/30/2019



Ennis-Flint
4161 Piedmont Parkway
Suite 370
Greensboro, NC 27410
Phone: 800.331.8118
contracts@ennisflint.com
www.ennisflint.com

Product Warranty Sheet

Warranties: Seller warrants preformed thermoplastic pavement marking products, unless otherwise specified, to the original buyer against material defects for a period of one year from the date of delivery of the goods. For all other products, Seller warrants to Buyer that, as of the date of shipment by Seller, the products shall conform to Seller's standard specifications for such products or to such other specifications as may have been expressly agreed to in this Agreement, and the products shall be delivered free from any lawful security interest, lien or other encumbrance. Said warranty and any associated liability shall be null and void if Buyer applies the products prior to receipt of all required approvals and/or independent laboratory test results. Further, if sampling is required to obtain approval or tests results, Buyer must provide evidence reasonably acceptable to Seller that the techniques used to obtain such samples were in strict compliance with Seller's stated procedure for such sampling. Failure to comply with sampling procedures will negate any warranty and associated liability. The foregoing warranty is the only warranty whatsoever, expressed or implied, relating to the products. In no event will Seller be liable for any claims related to the products if the products have been misused, altered, or incorporated into any other product. Such misuse, alteration, or incorporation shall be deemed to be a waiver of all claims by Buyer. SELLER DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. WITHOUT LIMITING THE FOREGOING, SELLER SPECIFICALLY DOES NOT WARRANT THE ACCURACY OF ANY ADVICE OR RECOMMENDATIONS GIVEN TO BUYER IN CONNECTION WITH THE SALE OF PRODUCTS UNDER THIS AGREEMENT, EXCEPT AS OTHERWISE EXPRESSLY REFLECTED IN THIS AGREEMENT. Seller shall be given, and any claim shall be subject to Seller being provided, a reasonable opportunity to investigate the products subject to any claim. Buyer shall not make any representation or warranty with respect to the products to any person or entity without the prior written consent of Seller.

Product Type: No-Preheat Preformed Thermoplastic
Product Color: White and Yellow; other colors available
Specification: AASHTO M249, except supplied in a preformed state.

Effective Date: 02/13/17

Product Description:

A durable, retroreflective pavement marking material suitable for use as roadway, intersection, commercial or private pavement delineation and markings.

Product Advantages:

- No-Preheat type of preformed thermoplastic material
- Preheating the road surface to a specific temperature is not required before application
- No minimum road or ambient temperature requirements for application
- Heating indicators (indents) act as visual cue that markings have reached a molten state allowing for proper adhesion and bead embedment
- Produced in the US in an ISO 9001:2015 certified facility; the scope of certification includes design, development and manufacturing of preformed thermoplastic markings
- Pre-cut and ready to use out of the box.
- Simple application utilizes low cost application equipment.
- Durable; lasts 6 to 8 times longer than paint
- Minimal mobilization costs allows quick response to maintenance projects
- Modifies easily in field with razor knife or heavy duty scissors, if required
- Easy to repair if road or utility maintenance requires a portion of the marking to be removed
- Sustainable product with small environmental impact. Recycled materials make up 60% of the product and 29% of the components are rapidly renewable materials, primarily from pine trees. Other natural resources used come from cotton, sunflowers, and soya.

Packaging:

Linear material is cut to a maximum of 3 ft. (.91 m) long pieces. Legends and symbols are supplied in flat pieces. The cartons in which packed contain a minimum of 35% post-consumer recycled materials, do not exceed 40 in. (1.02m) in length and 25 in. (.64 m) width, and are labeled for ease of identification. The weight of the individual carton does not exceed 70 lb. (32 kg). A protective film around the box is applied in order to protect the material from rain and premature aging.

Storage:

PreMark should be stored indoors and kept dry at all times. Avoid extreme storage temperatures. Shelf life is 12 months.



Physical Characteristics:

Composed of an ester modified rosin resistant to degradation by motor fuels, lubricants etc. in conjunction with aggregates, pigments, binders and glass beads which have been factory produced as a finished product, and meets the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways.

% Binder:	18% minimum
% Glass:	30% minimum
Intermix glass spec:	AASHTO M-247 with min. 80% true spheres
Surface glass spec:	AASHTO M-247 with min. 80% true spheres
% TiO₂ in white:	10% minimum
White Reflectance (Y value):	75% minimum
Yellow Reflectance (Y value):	45% minimum
Minimum Impact Resistance:	14 in. lbs. ASTM D 5420
Softening Point:	200-230°F ASTM E 28
Yellowness index, white:	0.12 maximum
Minimum Skid Resistance	45 BPN ASTM E 303
Minimum Retroreflectivity, white	500 mcd² ASTM E 1710
Minimum Retroreflectivity, yellow	300 mcd² ASTM E 1710
Thickness Minimums	90 mils or 125 mils

Application:

Asphalt: The materials are applied using the propane torch method recommended by Ennis-Flint. The material is applied without minimum requirements for ambient and road temperatures, and without any preheating of the pavement to a specific temperature. The material is applied without the use of a thermometer. The pavement must be clean, dry and free of debris.

Portland Cement Concrete: The same application procedure is used as described for asphalt; however, a compatible primer sealer is applied before application to assure proper adhesion.

The product data offered herein is, to the best of our knowledge, true and accurate, but all recommendations are made without warranty, expressed or implied. Because the conditions of use are beyond our control, neither Ennis-Flint nor its agents shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product described herein. As Ennis-Flint has neither control over the installation of product described herein nor control of the environmental factors the installed markings are subjected to, there is no guarantee as to the durability or the retroreflective properties of any marking system applied. No person is authorized to make any statement or recommendation not contained in the Product Data, and any such statement or recommendation, if made, shall not bind the Corporation. Further, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents, and no license under the claims of any patent is either implied or granted.

**SPECIFICATION
PREFORMED THERMOPLASTIC PAVEMENT MARKINGS**

1. **USE:** A durable, retroreflective preformed thermoplastic pavement marking material suitable for use as roadway, intersection, commercial or private pavement delineation and markings.
 - 1.1. The markings must be a resilient white, yellow, or other color thermoplastic product with uniformly distributed glass beads throughout the entire cross sectional area. The markings must be resistant to the detrimental effects of motor fuels, lubricants, hydraulic fluids, antifreeze, etc. Lines, legends and symbols are capable of being affixed to bituminous and/or portland cement concrete pavements by the use of the normal heat of a propane torch. Other colors shall be available as required.
 - 1.2. The markings must be capable of conforming to pavement contours, breaks and faults through the action of traffic at normal pavement temperatures. The markings shall have resealing characteristics, such that it is capable of fusing with itself and previously applied thermoplastic when heated with the torch.
 - 1.3. The markings shall not have minimum ambient and road temperature requirements for application, storage, or handling.

2. **MANUFACTURING LOCATION, CONTROL AND ISO CERTIFICATION:** The marking material must be produced in the United States, and the manufacturer must be ISO 9001:2015 certified for design, development and manufacturing of preformed thermoplastic pavement markings, and provide proof of current certification.

3. **MATERIAL:** Must be composed of an ester modified rosin resistant to degradation by motor fuels, lubricants etc. in conjunction with aggregates, pigments, binders and glass beads which have been factory produced as a finished product, and meets the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways. The thermoplastic material conforms to AASHTO designation M249, with the exception of the relevant differences due to the material being supplied in a preformed state.
 - 3.1. Graded Glass Beads:
 - 3.1.1. The material must contain a minimum of thirty percent (30%) intermixed graded glass beads by weight. The intermixed beads shall be conforming to AASHTO designation M247, with minimum 80% true spheres and minimum refractive index of 1.50.
 - 3.1.2. The material must have factory applied coated surface beads in addition to the intermixed beads at a rate of 1 lb. (\pm 10%) per 10 sq. ft. These factory applied coated surface beads shall have a minimum of 80% true spheres, minimum refractive index of 1.50, and meet the following gradation.

Size Gradation		Retained, %	Passing, %
US Mesh	μm		
12	1700	0 - 2%	98 - 100%
14	1400	0 - 3.5%	96.5 - 100%
16	1180	2 - 25%	75 - 98%
18	1000	28 - 63%	37 - 72%
20	850	63 - 72%	28 - 37%
30	600	67 - 77%	23 - 33%
50	300	89 - 95%	5 - 11%
80	200	97-100%	0 - 3%

- 3.2. Pigments:
- 3.2.1. White: The material shall be manufactured with sufficient titanium dioxide pigment to meet FHWA Docket No. FHWA-99-6190 Table 5 and Table 6 as revised and corrected.
- 3.2.2. Red, Blue, and Yellow: The material shall be manufactured with sufficient pigment to meet FHWA Docket No. FHWA-99-6190 Table 5 and Table 6 as revised and corrected. The yellow pigments must be organic and must be heavy-metal free.
- 3.2.3. Other Colors: The pigments must be heavy-metal free.
- 3.3. Heating indicators: The top surface of the material (same side as the factory applied surface beads) shall have regularly spaced indents. The closing of these indents during application, shall act as a visual cue that the material has reached a molten state allowing for satisfactory adhesion and proper bead embedment, and as a post-application visual cue that the application procedures have been followed.
- 3.4. Skid Resistance: The surface, with properly applied and embedded surface beads, must provide a minimum resistance value of 45 BPN when tested according to ASTM E 303.
- 3.5. Thickness: The material must be supplied at a minimum thickness of 125 mils (3.15 mm).
- 3.6. Versatility: As an option, turn arrows and combination arrows may come without surface applied glass beads, thus facilitating the use of those arrows as either left or right indicators, thereby reducing inventory requirements.
- 3.7. Environmental Resistance: The material must be resistant to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to oil and gasoline.
- 3.8. Retroreflectivity: The material, when applied in accordance with manufacturer's guidelines, must demonstrate a uniform level of sufficient nighttime retroreflection when tested in accordance to ASTM E 1710. The applied material must have an initial minimum intensity reading of $500 \text{ mcd}\cdot\text{m}^2\cdot\text{lx}^{-1}$ for white and $300 \text{ mcd}\cdot\text{m}^2\cdot\text{lx}^{-1}$ for yellow as measured with a Delta pavement marking retroreflectometer.

Note: Initial retroreflection is affected by the amount of heat applied during installation. When ambient temperatures are such that greater amounts of heat are required for proper installation, initial retroreflection levels may be affected.

4. APPLICATION:

- 4.1. Asphalt: The materials shall be applied using the propane torch method recommended by the manufacturer. The material must be able to be applied without minimum requirements for ambient and road temperatures and without any preheating of the pavement to a specific temperature. The material must be able to be applied without the use of a thermometer. The pavement shall be clean, dry and free of debris. Supplier must enclose application instructions in English and Spanish with each box/package only pertaining to an application method that does not require preheating of the pavement to a specific temperature before application.
- 4.2. Portland Cement Concrete: The same application procedure shall be used as described under Section 4.1. However, a compatible primer sealer shall be applied before application to assure proper adhesion.
5. **PACKAGING:** The preformed thermoplastic markings shall be placed in protective plastic film with cardboard stiffeners where necessary to prevent damage in transit. Linear material must be cut to a maximum of 3' long pieces. Legends and symbols must also be supplied in flat pieces. The cartons in which packed shall be non-returnable, shall contain a minimum of 35% post-consumer recycled materials, shall not exceed 40" in length and 25" in width, and shall be labeled for ease of identification. The weight of the individual carton must not exceed seventy (70) pounds. A protective film around the box must be applied in order to protect the material from rain or premature aging.
6. **TECHNICAL SERVICES:** The successful bidder shall provide technical services as required. Regionally-located manufacturer's representative, employed directly by the manufacturer, can provide no-cost on-site training for proper application.

PreMark®

by Ennis-Flint®

PREFORMED THERMOPLASTIC PAVEMENT MARKINGS



ENNIS-FLINT®

The Mark of Traffic Safety®

Lines

Legends

Arrows

Symbols

Shields

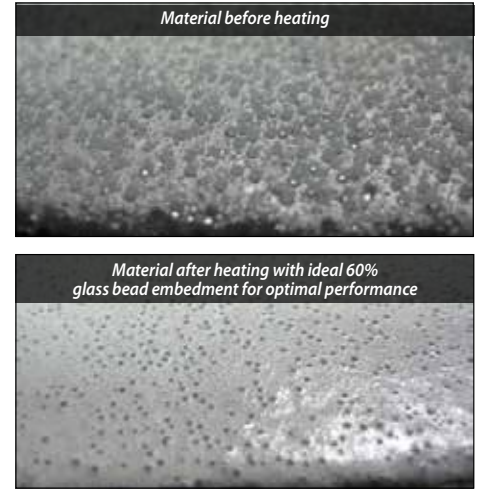
Contrast



PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

Ennis-Flint manufactures and supplies a complete line of durable preformed thermoplastic products engineered to provide optimal performance, lasting value, and to extend the life of your pavement marking program.

Manufactured in our ISO 9001:2015 certified facility ensuring consistent composition to meet specifications, PreMark® pavement markings are formulated with the highest quality resin, binder, aggregate, glass bead, and pigment systems. Depending upon regulatory requirements or specific application purposes, PreMark® pavement markings are offered with the following options:



BD = Beaded

Factory-applied surface beads and intermix beads are uniformly distributed at time of manufacturing so that as the marking wears, new beads are exposed.

NB = Non-beaded

No factory-applied surface beads; typically used for reversible arrows where beads are dispersed evenly over surface during field application.

VG = ViziGrip® visibility and anti-skid treatment

A unique pattern of surface beads and anti-skid elements that ensure maximized skid resistance and retroreflectivity. Used for crosswalks, bike symbols, accessibility markings, interstate shields, and other pedestrian uses.

SK = Skid Only

Anti-skid elements are on the surface and the intermix for enhanced skid resistance; no glass beads. Primary purpose is for preferential lane treatments and bike boxes where retroreflectivity is not required.



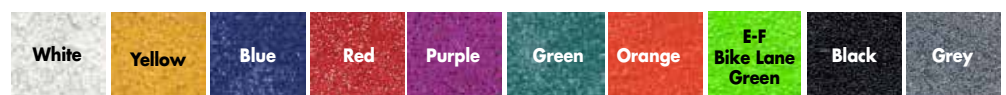
From single-colored linear markings to multi-colored surface signage, PreMark® pavement markings are available in standard FHWA designs that are compliant with the Manual on Uniform Traffic Control Devices (MUTCD). Custom designs are available where regulatory compliance is not required.

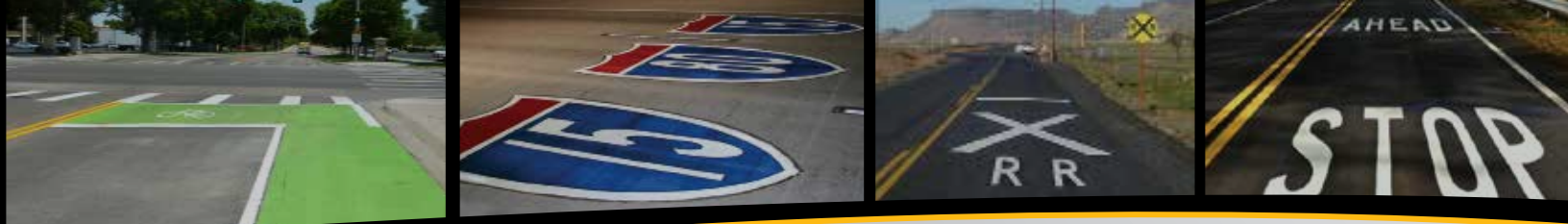


BENEFITS OF USING PREMARK® PAVEMENT MARKINGS

- **No Preheat** type of preformed thermoplastic material.
 - Preheating the road surface is not required.
 - No minimum road or ambient temperature requirements so pavement marking season can be extended; apply any time of year.
- Pre-cut and ready to use out of the box. Simple application does not require major capital investments in application equipment.
- Clean edge appearance; no "alligator" cracking that can occur with hot-applied thermoplastic.
- Durable; lasts 6 to 8 times longer than paint.
- Minimal mobilization costs allows quick response to maintenance projects.
- Twenty-four month shelf life allows broader options for inventory management.
- Modifies easily in field with razor knife or heavy duty scissors if required.
- Easy to repair if road or utility maintenance requires a portion of the marking to be removed.
- Sustainable product with small environmental impact. Recycled materials make up 60% of the product.

STANDARD REGULATORY COLORS





PreMark® pavement markings are made for use on public streets, highways, local roads, and airport landside areas as well as parking lots and roadways at shopping centers, school campuses, business parks and more — especially at intersections with heavy traffic where durability and proven performance is a must-have.

SIMPLE APPLICATION METHOD

Always follow the complete set of application instructions provided with the product.

Applying PreMark® pavement markings is fast, safe, and cost-effective with an industrial propane heat torch such as the Flint 2000EX®. It does not require preheating the pavement and doesn't have any minimum road or air temperature requirements.

The top surface of the material has regularly-spaced indents, or heating indicators, which provide a visual cue during application that the material has reached a molten state, indicating satisfactory adhesion and that proper bead embedment has been achieved. The indents also provide a post-application visual cue that the application procedures have been followed. A recommended sealer is required when applying PreMark® pavement markings on concrete surfaces and for large, multi-colored specialty markings and colorized lanes.

ENHANCED VISIBILITY: With high initial and retained retroreflectivity, PreMark® pavement markings provide enhanced brightness and better visibility throughout the service life. In addition to the intermixed glass beads within the material, factory-applied surface glass beads deliver the visibility of bigger beads and the durability of smaller beads.

ENHANCED DURABILITY: Engineered as a true heavy-duty intersection grade pavement marking, they provide optimum wear in adverse conditions. When properly applied, PreMark® pavement markings do not slip, peel up, or, in any way, lose its adhesion. They can last 6 to 8 times longer than paint under similar conditions.

IMPERVIOUS TO OIL AND GAS: PreMark® pavement markings are oil and gas impervious, yet compatible with all asphalt surfaces. They can be inlaid or applied on freshly-set asphalt.

WORKER & ENVIRONMENTAL SAFETY: With no lead chromate, heavy metal compounds or VOCs, PreMark® pavement markings are non-hazardous based on current EPA and OSHA standards either during application or removal.



Multi-colored markings have interconnected material for ease of handling and application.