

BIDDER SIGNATURE PAGE

Rev. 9/20/05

1. If doing business under a trade name, partnership or a sole proprietorship, you must submit the bid under exact title of the trade name, partnership, or proprietorship, and the bid must be signed by either the owner or a partner and witnessed by a notary public.
2. If a Corporation, the bid must be signed by the President or Vice President and witnessed by Corporate Secretary, (Corporate title must be exact) and affix corporate seal.
3. Other persons authorized by Corporate Resolution to execute agreements in its behalf may also sign the bid documents (pages).
4. The Person who signs this bid form must also sign the Non-Collusion Affidavit.
5. You cannot witness your own signature.

Crystal S. Gentry
 SIGNATURE
 CORPORATE SECRETARY

Crystal Gentry - Contract Administration
 PRINT NAME AND TITLE
 CORPORATE SECRETARY Notary Public



Ennis Paint, Inc.
 NAME OF BIDDER

115 Todd Court
 ADDRESS OF BIDDER

Thomasville, NC 27360

TELEPHONE: 336-308-3769

FAX: 336-475-7900

EMAIL: contracts@ennisflint.com

BY: Dane Alsbrook
 SIGNATURE

4-21-15
 DATE

AFFIX CORPORATE SEAL

Dane Alsbrook - Assistant Vice President
 PRINT OR TYPE NAME AND TITLE

WARNING: FAILURE TO FULLY, ACCURATELY, AND COMPLETELY SUPPLY THE INFORMATION REQUESTED ON THIS PAGE MAY RESULT IN THE REJECTION OF YOUR BID AS NON-RESPONSIVE

SECTION 2-TOTAL FOR COOPERATIVE MEMBERS

NOTE: Please be aware that in accordance with N.J.A.C. 5:34-1 et seq. no price for the same item can vary either between the County and Cooperative member. The following unit prices and totals are required to comply with the Local Public Contracts Law. The Grand Total below shall not be awarded as a whole. The successful bidder shall enter into individual contracts with the Cooperative Members.

All quantities represent estimated usage for 24 months.

	<u>QUANTITY</u> (MORE OR LESS)			<u>UNIT PRICE</u>	=	<u>SUBTOTAL</u>
Item #1	320	Pcs.	X	\$ <u>47.25</u>	=	\$ <u>15,120.00</u>
Item #2	260	Pcs.	X	\$ <u>46.25</u>	=	\$ <u>12,025.00</u>
Item #3	12	Pcs.	X	\$ <u>48.00</u>	=	\$ <u>576.00</u>
Item #4	18	Pcs.	X	\$ <u>50.50</u>	=	\$ <u>909.00</u>

GRAND TOTAL (SECTION 2) \$ 28,630.00
(NOT TO EXCEED)

VENDOR MUST BID ALL ITEMS

Partial Delivery can begin 7-10 Days after Award of contract
(May be a factor in award)

Delivery F.O.B. Various Locations in Union County
Samples provided prior to award must be received within 72 hours of request.

NAME OF BIDDER: Ennis Paint, Inc.

1.0 GENERAL REQUIREMENTS

ALL products shall conform to:
New Jersey and New York City VOC requirements

Exact Compliance YES _____ *NO _____

*Deviation _____

Requirements set forth 1989 New Jersey Department of Transportation "Standard Specifications of Road and Bridge Construction", including any subsequent revisions.

Exact Compliance YES _____ *NO _____

*Deviation Proposed products meet the performance requirements of the NJ Standard specifications

There will be six items specified for purchase and use:

ITEM # 1 - Traffic Paint

Container size: 5 gallons
Color: Yellow
Type: Acrylic Latex, Water-Based and Lead Free

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

ITEM #2 - Traffic Paint

Container size: 5 gallons
Color: White
Type: Acrylic Latex, Water-Based and Lead Free

Exact Compliance YES _____ *NO _____

*Deviation _____

ITEM #3 - Traffic Paint

Container size: 5 gallons
Color: Black
Type: Acrylic Latex, Water-Based and Lead Free

Exact Compliance YES _____ *NO _____

*Deviation _____

ITEM # 4 - Traffic Paint

Container size: 5 gallons
Color: Blue
Type: Acrylic Latex, Water-Based and Lead Free

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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ITEM #5 - Traffic Paint

Container size: 55 gallons

Color: Yellow

Type: Acrylic Latex, Water-Based and Lead Free

With Rhoplex Fastrack 2706 Resin with Tamol 901 Or Equal

Exact Compliance

YES

*NO

*Deviation _____

ITEM #6 - Traffic Paint

Container size: 55 gallons

Color: White

Type: Acrylic Latex, Water-Based and Lead Free

With Rhoplex Fastrack 2706 Resin with Tamol 901 Or Equal

Exact Compliance

YES

*NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

ALL ITEMS MUST MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED.

1.1 **IDENTIFICATION:** Each container must bear a label with the following information thereon: Name and address of manufacturer, production batch number, date of manufacture, shipping point, trade name and/or identification number, number of gallons, contract number, use intended, directions for application and formula. All containers shall be labeled in accordance with the current code of federal regulations and shall contain all information necessary to comply with N.J.S.A. 34:5A-1, "N.J. Worker and Community Right to Know Act". Improperly labeled samples and deliveries will be rejected.

Exact Compliance YES *NO

*Deviation _____

1.2 **QUALIFICATION OF BIDDER:** No bid will be considered unless the firm submitting the bid can meet the following conditions:

1.2.1 That it has in operation a plant adequate for and devoted to the manufacture of the pavement marking compound that it proposes to furnish and is capable of producing batch sizes consistent with the quantities to be delivered.

Exact Compliance YES *NO

*Deviation _____

1.2.2 That it maintains a laboratory to scientifically control the product bid upon to assure accuracy and quality of formulation.

Exact Compliance YES *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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1.2.3 That it has produced fast-drying material over the past three (3) years with a successful application record.

Exact Compliance YES _____ *NO _____

*Deviation _____

1.3 **FIELD TEST:** The County of Union Division of Engineering, reserves the right to make field tests of material prior to award to determine its suitability for application in its equipment and for purposes of determining compliance with drying time requirements of this specification. Therefore, the vendor will be responsible for providing the County of Union with said material samples, prior to award, in the following quantities:

- Two- 1 quart size metal friction lid containers of white paint;
- Two- 1 quart size metal friction lid containers of yellow paint.
- Two- 1 quart size metal friction lid container of black paint.
- Two- 1 quart size metal friction lid container of blue paint.

In addition, a ¼ inch air space shall be provided at the top of the container. No payment will be made for these samples. The County reserves the right to select the testing laboratory for the purpose of testing the samples. Upon completion of testing, the County shall forward copies of the invoices used for testing to the supplier. The supplier shall pay all invoices within ten business days from receipt.

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

1.4 **CERTIFICATION REQUIRED:**

1.4.1 **CERTIFICATION OF AVAILABILITY:** A supplier who is not a prime manufacturer of the product being offered, must submit a notarized certificate issued by the manufacturer that the pavement marking material being offered as a sample will be available to the supplier and guarantee delivery of that type of material during the subsequent year, if required by the Division of Engineering.

Ennis Paint is the prime manufacturer of this product submitted for bid

Exact Compliance

YES _____ *NO _____

*Deviation _____

1.4.2 **CERTIFICATE OF COMPLIANCE:** The manufacturer shall submit a notarized Certificate of Compliance certifying that product meets all the requirements in this specification.

Exact Compliance

YES _____ *NO _____

*Deviation _____

1.5 **SUBMISSION OF SAMPLES AND CERTIFICATION:** Certificates of Compliance and Certificate of Availability shall accompany the bid proposal.

Furnishing this certificate will not relieve the vendor responsibility to furnish paint in full compliance with this specification. In the event the contract material does not meet these specifications, the vendor shall be required to replace all such materials at his own expense, including handling and transportation charges, with material that does comply within 10 days after rejection.

1.6 **RANDOM SAMPLES:** Random field samples may be selected in order to assure conformance with this specification throughout the term of the contract.

NAME OF BIDDER: Ennis Paint, Inc.

2.0 APPLICABLE SPECIFICATIONS AND STANDARDS

2.1 **GENERAL:** The following specifications and publications of the issue in effect shall form a part of the specification to the extent specified herein.

2.2 **FEDERAL SPECIFICATION:** (Reference specification only. See Item 4 for complete test requirements.)

2.2.1 TT-P-1952b., using Tamol 901.

2.2.2 Federal Test Method Standard 141b, dated February 1, 1979. Paint, Varnish, Lacquer and related materials, Method of Inspection, Sampling and Testing.

2.2.3 TT-P-115e, June 11, 1975.

2.2.4 Current ASTM Test Methods.

3.0 DETAILED REQUIREMENTS

3.1 **FORMULATION AND MANUFACTURING:** The paint shall be formulated and manufactured from first grade raw materials and shall be free from defects and imperfections that might adversely affect the serviceability of the finished product. Where required, the paint shall contain the dispersant agent Tamol 901 as recommended by the Rohm and Hass Co. The paint shall not contain any of the materials listed in the Environmental Protection Agency Code of Regulations (CFR) 40, Section 261.24, Table 1. The paint shall be furnished ready for use. No additional thinner shall be added.

Exact Compliance YES *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

3.2 COMPOSITION:

3.2.1 PIGMENT: The prime pigment for yellow paint should be a non-toxic organic pigment yellow, No. 75 or equal pre-approved by the N.J.D.O.T., with excellent exterior durability and color permanence. The prime pigment should also contain a minimum 0.2 pounds per gallon of titanium dioxide conforming to ASTM D476, Type IV, 94 percent purity.

The prime pigment for white paint should be titanium dioxide conforming to ASTM D476, Type IV, with a minimum titanium dioxide content of 94 percent and shall be used at a minimum rate of 1 pound per gallon. The percent pigment by weight of the finished product should not be less than 60 or more than 62 percent.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.2 TOTAL SOLIDS: The total non-volatile should be a minimum of 77.5% by weight, when tested in accordance with ASTM D2369.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.3 VOLUME OF SOLIDS: The finished paint are not to be less than 61 percent solids by volume.

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.4 ISOLATED VEHICLE SOLIDS: The vehicle solids percent on vehicle are not to be less than 45% when determined by Federal Test Method Standard 141b, 100% Acrylic Emulsion.

Exact Compliance YES *NO

*Deviation _____

3.2.5 VOLATILE ORGANIC CONTENT: Under one pound per gallon maximum (120 grams per liter).

Exact Compliance YES *NO

*Deviation _____

3.2.6 VISCOSITY: The consistency of the paint is to be between 75-85 Krebs Units at 77°F when tested in accordance with ASTM D562.

Exact Compliance YES *NO

*Deviation _____

3.2.7 DRY CAPACITY: The minimum contrast ratio when drawn down with a .005 Bird applicator shall be 0.95.

Exact Compliance YES *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.8 DIRECTIONAL REFLECTANCE: The daylight directional reflectance when tested in accordance with Method 6121 of Federal Test Standard 141b should be 85 percent minimum for white paint and 54 percent minimum for yellow paint.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.9 COLOR: The color of yellow, white, and black traffic paint is to match color No.33538 , No. 37886, and No. 37038 respectively, of the latest edition of Federal Standard No. 595A.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.10 WEIGHT PER GALLON: The weight of the finished paint should be 14 pounds plus or minus 0.2 pounds.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.11 FLEXIBILITY: The paint should show no cracking or flaking when tested in accordance with Federal Specification TT-P-1952b, Section 4.3.7.

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.12 BLEEDING: The paint should have a minimum bleeding ratio of 0.97 when tested in accordance with Federal Specification TT-P-1952b, Section 4.5.13. The asphalt saturated felt is to conform to Federal Specification HH-R-590.

Exact Compliance YES *NO

*Deviation _____

3.2.13 ABRASION RESISTANCE: No less than 210 liters of sand should be required for removal of the paint film when tested in accordance with TT-P-1952b, Section 4.3.8.

Exact Compliance YES *NO

*Deviation _____

3.2.14 WET ADHESION: Over 5000 cycles when tested in accordance with Federal Specification TT-P-1511A, Paragraph 4.3.9.2.

Exact Compliance YES *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.15 SHELF LIFE: All paint furnished should have a minimum shelf life of 9 months at temperatures above 35 degrees F. When tested, the paint should conform to the physical requirement specified herein. In addition, the paint should show no skinning, gelling or hardening on the surface, nor hard settling upon storage in the sealed containers, that will affect the performance of the product.

Exact Compliance YES ✓ *NO

*Deviation _____

3.2.16 FREEZE-THAW STABILITY: When tested in accordance with TT-P-1952b, Section 4.5.7, the paint should not show coagulation or change in consistency greater than 5 Krebs Units.

Exact Compliance YES ✓ *NO

*Deviation _____

3.2.17 STATIC HEAT STABILITY: When tested in accordance with TT-P-1952b, Section 4.5.8, the paint should show no coagulation, discoloration, or change in consistency greater than plus or minus 5 Krebs Units.

Exact Compliance YES ✓ *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.18 GASOLINE RESISTANCE: Apply the paint on a clean glass plate at a wet film thickness of .0015 inches and allow to dry in a horizontal position at standard conditions for seventy-two (72) hours. Immerse one-half of the painted panel in unleaded gasoline at 25°C (+) 1°C. After eighteen (18) hours, remove the panel and allow to dry for two (2) hours at standard conditions. The paint film should not soften, blister, wrinkle, or lose adhesion.

Exact Compliance

YES _____ *NO _____

*Deviation _____

3.2.19 GRIND: The grind should not be less than 2 Hegman when tested in accordance with Federal Test Standards No. 141b, Method 4411.

Exact Compliance

YES _____ *NO _____

*Deviation _____

3.2.20 DRYING TIME: Field no-tracking time: The paint should dry to a no-tracking condition under traffic in 120 seconds maximum when the ambient temperature is 77° F and when applied at 14-16 mils wet film thickness and at 140° F with six pounds per gallon of glass beads.

A line showing no visual deposition of the paint to the pavement surface when viewed from a distance of fifty (50) feet to be considered non-tracking and conforming to the requirement for field drying conditions.

Exact Compliance

YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.21 WATER RESISTANCE: The paint should conform to federal specification TT-P-1952b, Section 4.5.6. There should be no blistering or appreciable loss of adhesion, softening, or other deterioration after examination.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.22 DILUTION TEST: The paint should be capable of dilution with water at all levels without curdling or precipitation such that the wet paint can be readily cleaned up with only water.

Exact Compliance YES _____ *NO _____

*Deviation _____

3.2.23 DRY THROUGH (EARLY WASHOUT): The "dry through" time of a 15 mil wet film placed immediately in a humidity chamber maintained at 72.5 plus or minus 2.5 degrees F and 90 plus or minus 5 percent relative humidity to be within 2 hours of the department laboratory reference film when tested in accordance with ASTM D1640, except that the pressure exerted should be the minimum needed to maintain contact with the thumb and film.

Exact Compliance YES _____ *NO _____

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

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3.2.24 COLOR APPEARANCE AFTER AGING: The white, and black paint should show no more than slight discoloration and the yellow paint should be within the limits of the color tolerance chart for standard highway yellow, after accelerated weathering in accordance with Federal Specification TT-P-115d, Section 3.5.9.1.

Exact Compliance YES ✓ *NO

*Deviation _____

4.0 PACKAGING

The paint is to be shipped in five (5) gallon plastic containers or fifty-five (55) gallon returnable drums, in compliance with the code of Federal Regulations, Revised 1-70.

The 55 gallon drums should be new metal, 17H, 18 gauge metal for body and bottom head sheet, and have welded side seams. The drums should be of the open end type. All containers, after being filled, shall be closed with tight fitting covers that will assure leak-proof seals. The removable top head sheet should be 14 gauge; 16 gauge is authorized provided there are one or more corrugations in the cover near the periphery.

The 55 gallon drums should be coated on the inside of the body and head sheets with a lacquer type rust inhibiting coating, free of pin holes, scratches, or other defects that may allow contamination of the paint from corrosion of the container.

Exact Compliance YES ✓ *NO

*Deviation _____

NAME OF BIDDER: Ennis Paint, Inc.

**CERTIFICATE OF AVAILABILITY
AS PER 1.4.1**

Ennis Paint is the prime manufacturer of this product submitted for bid. Per 1.4.1 of the bid documents only a supplier who is not a prime manufacturer of the product being offered, must submit a notarized certificate issued by the manufacturer.

NAME OF BIDDER: Ennis Paint, Inc.

**CERTIFICATE OF COMPLAINE
AS PER 1.4.2**

NAME OF BIDDER: Ennis Paint, Inc.

PRODUCT DATA

Product Type: Standard Fast Dry Waterborne
Product Code: 983041 983042
Product Color: White Lead Free Yellow
Description: WB WHT NJ/OC FAST DRY
WB YEL NJ/OC FAST DRY
Specification: Meets NJ DOT Specification 912.04
Effective Date: January 15, 2014

Product Description:

A user friendly, high solids, fast drying waterborne traffic paint suitable for application by airless or air atomized equipment. May be used to stripe roadways, airports and parking lots with or without pressure applied glass beads. It offers all of the benefits of a water reducible paint, and quickly dries to a no track condition..

Product Advantages:

- Non-flammable and below 150 VOC
- Product reduces and cleans up with water
- Performs equally well on both asphalt and concrete
- Paint demonstrates excellent bead retention
- Keeps traffic control to a minimum when striping
- Can be used for symbols, legends and lane marking

Packaging:

This paint is available in 5 gallon pails, 55 gallon drums and 275 gallon totes. Other packaging available on request.

Storage:

Shelf life of the unopened product is one year from date of manufacture with proper storage and minimal agitation. Proper storage includes inside or covered, above 35° F (3° C), and out of direct sunlight. Outside storage for short intervals is acceptable.

Conditions for Application:

All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion. For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Coverage:

1 gallon yields 320 feet of 4" stripe @ 15 mils; 400 feet of 4" stripe @ 12 mils.

Physical Characteristics:

% Total solids/weight:	77.5% minimum
% Total solids/volume:	61% minimum
Viscosity in Krebs Units:	70-95
White 595B color match:	37886
Yellow 595B color match:	33538
Weight per gallon:	14 +/- 0.2 lbs.

Dry Time: Without drop on glass beads, this paint dries to a lab ASTM D711 no pickup in less than 10 minutes @ 15 mils when ambient and surface temperature are 77° F at 50±5% humidity. When glass beads are applied at a rate of at least 6 pounds per gallon to a 15 mil wet line, the field applied paint will dry to an ASTM D713 no-track in less than 2 minutes when applied at the weather conditions above.

Limitations: Applying a test strip to determine dry to no-pickup time when the humidity is higher than 65%. Cone whenever necessary.

- Do not heat paint in striping system above 110°F.
- Do not apply when temperatures are below 50 F.
- Do not apply when rain is forecast.
- Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% with water and then use immediately.
- Do not apply if temperature is expected to fall below freezing for 6 hours after application.



ENNIS-FLINT
A Traffic Safety Solutions Company

800.331.8118

sales@ennisflint.com

www.ennisflint.com

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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 instated 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.

Certificate of Compliance

Manufacturer:



ENNIS-FLINT
A Traffic Safety Solutions Company

Ennis-Flint
4400 Vawter Ave
Richmond, VA 23222
Phone: 800-331-8118 Ext. 4624
Fax: 804-321-7337

Date:
Code: 983041 NJW-21-M-51
Description: WB WHT NJ/OC FAST DRY
Batch:
Color: WHITE
GL:
MFG Date:

Test Results

	Min.	Max.	Actual
Total Solids (%) ASTM D2369	77.5%	80%	
Pigment (%) ASTM D3723	60%	62%	
Non-Volatile Vehicle (%)	42%	45%	0.0%
Weight (Lb./Gal) ASTM D1475	13.8	14.2	
Viscosity (KU) ASTM D562	80	90	
Directional Reflectance (ASTM D6121)	85%		
Fitness of Grind, Hegman (ASTM D4411)	2		4
Dry Opacity .005 mil	0.95		
Color Matches Fed Std. 37886			Pass
Dry Time (No pick-up) ASTM D-711		10 Minutes	
V.O.C. Less Than (grams/liter)		150	98.68

This Product **does not** contain mercury, lead, hexavalent chromium, toluene, chlorinated solvents, hydrolyzable chlorine derivatives, ethelene based glycol ethers and their acetates, nor any carcinogen as defined in 29-CFR 1910.1200.

I do hereby that this material complies with all of the requirements of the New Jersey DOT 2007 Standard Specifications for Latex Traffic Paint, section 912.04.01.

Name: *Aamir Cheema*
Title: QA Laboratory Supervisor

Certificate of Compliance

Manufacturer:



ENNIS-FLINT
A Traffic Safety Solutions Company

Ennis-Flint
4400 Vawter Ave
Richmond, VA 23222
Phone: 800-331-8118 Ext. 4624
Fax: 804-321-7337

Date:
Code: 983042 NJY-21-M-51
Description: WB YEL NJ/OC FAST DRY
Batch:
Color: YELLOW
GL:
MFG Date:

Test Results	Min.	Max.	Actual
Total Solids (%) ASTM D2369	77.5%	80%	
Pigment (%) ASTM D3723	60%	62%	61.23%
Pigment (%) - Organic	58%	61%	
Non-Volatile Vehicle (%)	45%	48%	0.00%
Weight (Lb./Gal) ASTM D1475	13.8	14.2	
Viscosity (KU) ASTM D562	80	90	
Directional Reflectance (ASTM D6121)	54%		
Fitness of Grind, Hegman (ASTM D4411)	2		4
Dry Opacity .005 mil	0.95		
Color Matches Fed Std. 595B. 33538			Pass
Dry Time (No pick-up) ASTM D-711		10 Minutes	
V.O.C. Less Than (grams/liter)		150	Pass

This Product does not contain mercury, lead, hexavalent chromium, toluene, chlorinated solvents, hydrolyzable chlorine derivatives, ethylene based glycol ethers and their acetates, nor any carcinogen as defined in 29-CFR 1910.1200.

I do hereby that this material complies with all of the requirements of the New Jersey DOT 2007 Standard Specifications for Latex Traffic Paint, section 912.04.01.

Name: *Aamir Cheema*
Title: QA Laboratory Supervisor

Certificate of Compliance

Manufacturer:

Ennis-Flint



ENNIS-FLINT
A Traffic Safety Solutions Company

4400 Vawter Ave
Richmond, VA 23222
Phone: 1-804-309-3195
Fax: 1-804-321-7337

Date: 4/20/2015
Code: 985203 EPBK-21-M-1
Description: Waterborne Traffic Marking Paint
Batch: SUBMITTAL
Color: BLACK
GL: 550
MFG DATE: SUBMITTAL

Test	Requirements	Results
Condition in Container	Paragraph 3.2-1 / 4.3.2	Homogenous
Appearance	Paragraph 3.2.2 / 4.3.3	Smooth
Storage Stability	No Caking or Settling	PASS
Lead Contents	ASTM-D3335	NONE/LEAD FREE
Chromium Contents	ASTM-D-3718	NONE/CHROME. FREE
Freeze Thaw	ASTM D2243 +/- 5 KU	PASS 5 CYCLE +2 KU
Heat Stability	Paragraph 3.2.8 +/- 10 KU	PASS
Skinning	Fed. STD 141c 48 HOURS	PASS
Accelerated Package Stability	ASTM D1849 14 DAY	PASS
Flexibility	ASTM D522 180°/13 min Mandrel	PASS
Abrasion Resistance	ASTM D968	>180 liters
Baked Films	150 liters min.	PASS 180 liters
Weathered Films	150 grams min.	PASS 170 grams
Scrub Test	ASTM-D-2486	PASS 500 cycles

Paint Characteristics

	Min.	Max.	Actual
Total Solids (%) ASTM D2369			77.43%
Pigment (%) ASTM D4451	60%	62%	60.15%
Non-Volatile Vehicle (%)			43.36%
Weight (Lb./Gal) ASTM D1475			13.8
Viscosity (KU) ASTM D562	80	90	89
Fitness of Grind, Hegman	3		4
Dry Opacity @ 5 mils	1		1
Color Matches Fed Std. 37038			Pass
Dry Time (No pick-up) ASTM D-711		10 Minutes	8 Minutes
Bleeding Ratio (TT-P-1952E)	0.95		Pass
V.O.C. Less Than (grams/liter)		100	Pass
Dry Through (ASTM D1640)		120 Minutes	110 Minutes

Having the authority to act for Ennis-Flint, I do hereby certify that the Traffic Plant data hereon complies with all applicable specifications.

Name: *Aamir Cheema*
Title: QA Laboratory Supervisor

Certificate of Compliance



Ennis Flint
2803 Spur 469
Ennis, Texas 75119

PH: 800/331-8118
fax: 800/555-0217

Date: 4/15/2015
Description: Waterborne traffic marking paint
Code: 985205 TT-P-1952-E Types I & II
Batch: SUBMITTAL
Color: BLUE
Quantity 480 Gallons
MFG DATE SUBMITTAL
Order No:
Shipping:

Test	Requirements	Results
Condition in Container	Paragraph 3.2-1 / 4.3.2	Homogenous
Appearance	Paragraph 3.2.2 / 4.3.3	Smooth
Storage Stability	No Caking or Settling	PASS
Lead Contents	ASTM-D3335	NONE/LEAD FREE
Chromium Contents	ASTM-D-3718	NONE/CHROME. FREE
Freeze Thaw	ASTM D2243 +/- 5 KU	PASS 5 CYCLE +3 KU
Heat Stability	Paragraph 3.2.8 +/- 10 KU	PASS
Skinning	Fed. STD 141c 48 HOURS	PASS
Accelerated Package Stability	ASTM D1849 14 DAY	PASS
Flexibility	ASTM D522 180°/13 min Mandrel	PASS
Abrasion Resistance	ASTM D968	>180 liters
Baked Films	150 liters min.	PASS 180 liters
Weathered Films	150 grams min.	PASS 170 grams
Scrub Test	ASTM-D-2486	PASS 500 cycles

Paint Characteristics

	Min.	Max.	Actual
Total % Non-Volatile			76.33%
% Pigment	60%	62%	60.08%
%NV Vehicle			40.72%
Weight Lb./Gal			13.63
Viscosity K.U.	80	90	84
Fitness of Grind, Hegman	3		4
Dry Opacity	0.92		0.998
Color Matches Fed Std 35180			Pass
Dry Time (No pick-up) ASTM D-711		10 Minutes	8
Bleeding Ratio	0.95		Pass
V.O.C. Less Than (grams/liter)		100	97.42

Having the authority to act for Ennis Paint, Inc.,
I do hereby certify that the Traffic Paint data
hereon complies with all applicable specifications.

Name: John Willis
Title: QA Lab Supervisor

PROOF OF COMPLIANCE FROM NJ & NYC VOC & NJDOT

NAME OF BIDDER: Ennis Paint, Inc.

PROOF OF COMPLIANCE FROM NJ & NYC VOC & NJDOT

NAME OF BIDDER: Ennis Paint, Inc.

EF Series

Fast Dry Waterborne Traffic Paint

PRODUCT DATA

Product Type: **Standard Fast Dry Waterborne**
Product Code: **985301 985302**
Product Color: **White Lead Free Yellow**
Description: **WB WHT FAST DRY EF SERIES**
WB YEL FAST DRY EF SERIES
Specification: **Meets the performance of TT-P-1952E Type I & II**
Effective Date: **July 15, 2013**

Product Description:

A user friendly, high solids, fast drying waterborne traffic paint suitable for application by airless or air atomized equipment. May be used to stripe roadways, airports and parking lots with or without pressure applied glass beads. It offers all of the benefits of a water reducible paint, and quickly dries to a no track condition. Performance and color properties of this paint meets TT-P-1952E Types I & II.

Product Advantages:

- Non-flammable and below 150 VOC
- Product reduces and cleans up with water
- Performs equally well on both asphalt and concrete
- Paint demonstrates excellent bead retention
- Keeps traffic control to a minimum when striping
- Can be used for symbols, legends and lane marking

Packaging:

This paint is available in 5 gallon pails, 55 gallon drums and 275 gallon totes. Other packaging available on request.

Storage:

Shelf life of the unopened product is one year from date of manufacture with proper storage and minimal agitation. Proper storage includes inside or covered, above 35° F (3° C), and out of direct sunlight. Outside storage for short intervals is acceptable.

Conditions for Application:

All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion. For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Coverage:

1 gallon yields 320 feet of 4" stripe @ 15 mils; 400 feet of 4" stripe @ 12 mils.

Physical Characteristics:

% Total solids/weight:	75% minimum
% Total Solids/volume:	58% minimum
Weight % Pigment Solids:	58-63%
Viscosity in Krebs Units:	75-85
White Reflectance (Y value):	84 minimum
Yellow Reflectance (Y value):	50 minimum
Hiding at 15 mils wet:	Complete
VOC in grams per liter:	100 maximum
Weight per gallon:	13.4 minimum

Dry Time: Without drop on glass beads, this paint dries to a lab ASTM D711 no pickup in less than 10 minutes @ 15 mils when ambient and surface temperature are 77° F at 50±5% humidity. When glass beads are applied at a rate of at least 6 pounds per gallon to a 15 mil wet line, the field applied paint will dry to an ASTM D713 no-track in less than 2 minutes when applied at the weather conditions above.

Limitations: Applying a test strip to determine dry to no-pickup time when the humidity is higher than 65%. Cone whenever necessary.

- Do not heat paint in striping system above 110°F.
- Do not apply when temperatures are below 50 F.
- Do not apply when rain is forecast.
- Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% with water and then use immediately.
- Do not apply if temperature is expected to fall below freezing for 6 hours after application.

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.



ENNIS-FLINT
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EF Series

Fast Dry Waterborne Traffic Paint

PRODUCT DATA

Product Type:	Standard Fast Dry Waterborne		
Product Code:	985203	985204	985205
Product Color:	BLACK	RED	BLUE
Description:	WB BLK FAST DRY 1952E 1/2		
	WB RED FAST DRY 1952E 1/2		
Specification:	Meets Federal Spec TT-P-1952E Type I & II		
Effective Date:	July 15, 2013		

Product Description:

A user friendly, high solids, fast drying waterborne traffic paint suitable for application by airless or air atomized equipment. May be used to stripe roadways, airports and parking lots with or without pressure applied glass beads. It offers all of the benefits of a water reducible paint, and quickly dries to a no track condition. This paint meets TT-P-1952E Types I & II.

Product Advantages:

- Non-flammable and below 150 VOC
- Product reduces and cleans up with water
- Performs equally well on both asphalt and concrete
- Paint demonstrates excellent bead retention
- Keeps traffic control to a minimum when striping
- Can be used for symbols, legends and lane marking

Packaging:

This paint is available in 5 gallon pails and 55 gallon drums. Other packaging available on request.

Storage:

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Coverage:

1 gallon yields 320 feet of 4" stripe @ 15 mils; 400 feet of 4" stripe @ 12 mils.

Physical Characteristics:

% Total solids/weight:	75% minimum
% Total Solids/volume:	58% minimum
Weight % Pigment Solids:	60-62%
Viscosity in Krebs Units:	80-90
TiO ₂ in Blue:	0.2 lbs minimum
TiO ₂ in Green:	0.2 lbs minimum
Hiding at 5 mils wet/colors:	0.92 minimum
Hiding at 5 mils wet/black:	1.00
VOC in grams per liter:	150 maximum
Color match:	6 Delta E maximum

Dry Time: Without drop on glass beads, this paint dries to a lab ASTM D711 no pickup in less than 10 minutes @ 15 mils when ambient and surface temperature are 77° F at 50±5% humidity. When glass beads are applied at a rate of at least 6 pounds per gallon to a 15 mil wet line, the field applied paint will dry to an ASTM D713 no-track in less than 2 minutes when applied at the weather conditions above.

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