

Franklin Paint™

259 COTTAGE ST FRANKLIN, MA 02038

www.franklinpaint.com

Product Data: HYDROPHAST™ 1952B WATERBORNE TRAFFIC PAINT

DESCRIPTION: A 100% acrylic, VOC compliant, traffic paint for use where dry time is not critical. It conforms to TT-P-1952B specification. For use on bituminous, Portland-cement and concrete pavements, as well as various sealcoat applications. Not recommended for use on concrete sealers containing silicone.

SURFACE PREPARATION: All surfaces should be clean and dry, free of dirt, sand, grease, oil, salt, etc. Loose and lifting paint should be removed prior to painting. While new asphalt surfaces vary in length of time required for curing, one to two weeks is usually adequate for waterborne paints. If it is necessary to paint immediately after paving, applying two thin coats 7-8 mils each allowing 24 hours between coats is recommended. Waterborne paints applied too thick or too soon may cause asphalt to lift and or crack. *Regardless of surface condition, a test stripe should be placed inconspicuously to determine if surface is suitable before continuing.*

APPLICATION: May be applied with conventional or airless sprayers. See equipment manufacturer's recommendations. Recommended paint thickness is 15 mils wet. For best results apply when air and surface temperatures are above 50° F and relative humidity is below 85%. To improve spraying, paint may be heated to an optimum temperature of 110° F never to exceed 160° F. Heating waterborne paint will not speed up dry time.

THINNING & CLEANING: Thinning is not recommended. If thinning is desired, use clean water, not to exceed 1 pint water/5 gallons paint. Adding water will lengthen dry time. Wet paint may be cleaned with water. Dry paint is very difficult to remove.

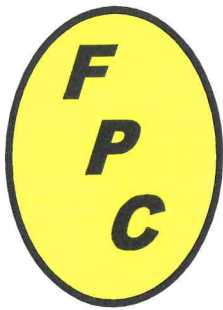
SHELF LIFE: 12 months minimum based on unopened container stored @ 77° F

STORAGE: Store in a cool dry area. **KEEP FROM FREEZING**

Never mix waterborne and alkyd traffic paints! The results will be a congealed mess.

	2020 WHITE	2021 YELLOW (Lead Free)
Coverage/gal (15 mils wet 4"line)	320'	320'
Dry time minutes 15 mils wet (LAB)	20	20
Hiding (contrast ratio)	96	96
Viscosity (K.U.)	80-90	80-90
Weight/gallon	14.0	13.8
VOC's (pounds/gallon)	.72	.66
%Total solids (weight)	75.7	75.5
%Pigment (weight)	62	61.5
Vehicle type	Next generation Fastrack™ 3427 100% Acrylic Resin (more durable)	

800-486-0304 Fax: 508-528-815 contact@franklinpaint.com



Product Data: 22% MELT DOWN THERMOPLASTIC

"As Durable as the Hills of Old New England."

Description: 100% solid, hydrocarbon thermoplastic road marking material. For use on bituminous road ways. Conforms to MA specification M7.01.03 White and M7.01.04 Yellow.

SURFACE PREPARATION: All surfaces should be clean and dry, free of dirt, sand, grease, oil, salt, etc. *Regardless of surface condition, a test stripe should be placed inconspicuously to determine if surface is suitable before continuing.*

Application: May be applied with conventional thermoplastic application equipment walk behind or truck mounted, screed or ribbon type. Air and surface temperature should be above 40° F. Product application temperature is 400-440° F never to exceed 450° F. Recommended mil thickness is 90-125 mils.

SHELF LIFE: 12 months minimum based on unopened bag stored @ 77° F

STORAGE: Store in a cool dry area.

Never mix alkyd thermoplastic or other manufactures products with Melt Down.

2600 White

**2601 Yellow
(Lead free)**

Coverage 1 ton 4" line 90 mils	*6000 ft.	*6000 ft.
Coverage 1 ton 4" line 125 mils	*4500 ft.	*4500 ft.
% Binder by weight	22	22
% Glass beads by weight	30	30
% Titanium dioxide by weight	10	N/A
% Calcium Carbonate by weight	38	**48
Reflectance	84	50
Softening point degrees F	214	214

**Coverage amounts are approximate.*

*** Calcium carbonate includes organic yellow*

**Franklin Paint Company, Inc.
259 Cottage Street
Franklin, MA 02038**

**Tel: 800-486-0304
508-528-0303
Fax: 508-528-8152**

www.franklinpaint.com

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Product Data: LOW VOC CHLORINATED RUBBER TRAFFIC PAINT

DESCRIPTION: A durable fast drying alkyd traffic paint modified with chlorinated rubber. Conforms to current federal VOC regulations. Recommended for use on bituminous, Portland-cement and concrete pavements. Not recommended for use over concrete sealers containing silicone or asphalt sealers.

SURFACE CONDITION/PREPARATION: Asphalt and concrete surfaces should be cured, clean, dry, and sound. Loose and lifting paint should be removed prior to application. Concrete with sealers containing silicone, having a smooth finish, or efflorescence should be removed by etching or abrasive blasting, as these conditions may interfere with adhesion. While new asphalt surfaces vary in length of time required for curing, insufficient curing may result in bleeding. New concrete tends to chalk; alkyd may also react with the alkali in new concrete making adhesion difficult. *Regardless of surface condition, a test stripe should be placed inconspicuously to determine if surface is suitable before continuing.*

APPLICATION: Formulated for use with either airless or conventional air atomized spray equipment. See equipment manufacturer's recommendations. Recommended paint thickness is 15 mils wet. For best results apply when air and surface temperature are above 40°F and relative humidity is below 85%.

THINNING & CLEANING: *Federal and state regulations prohibit dilution of this product. DO NOT THIN.* Toluene may be used for cleaning.

SHELF LIFE: 3 months minimum in an unopened container stored @ 77°F. It is recommended to order only what you are able to use in this time frame.

STORAGE: Store in a cool dry area.

Never mix waterborne and alkyd traffic paints!

	2040 WHITE	2041 YELLOW	2042 GREEN	2043 BLACK	2044 BLUE	2045 RED
Coverage/Gal (15 mils wet 4" line)	320'	320'	320'	320'	320'	320'
Dry Time Minutes 15 mils (ASTM D-711)	8	8	8	8	8	8
Dry Opacity (Hiding)	0.96	0.96	N/A	N/A	N/A	N/A
Viscosity-KU (Kreb Units)	80-84	80-84	80-84	80-84	80-84	80-84
Weight/Gallon (lbs.)	12.6	12.4	12.5	12.6	12.5	12.3
Directional Reflectance (Cap Y)	85	50	N/A	N/A	N/A	N/A
VOC's-Pounds/Gallon	1.10	1.10	1.12	1.10	1.13	1.11
% Total Pigment (By Weight)	58.7	58.2	57.1	58.4	57.1	57.1
% Total Solids (By Weight)	76.6	76.5	76.0	76.6	76.1	75.7
% Total Solids (By Volume)	55.1	55.9	55.3	55.6	55.5	55.0
% Total Non-Volatile Vehicle (By Weight)	41.3	41.8	42.9	41.6	42.9	42.9
Vehicle Type-	Medium oil solvent based alkyd, modified with chlorinated rubber					

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REVISED
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**LS50**

PRODUCT DATA

PRODUCT DESCRIPTION

Epoplex LS50 is a two-component, 100% solids epoxy coating material designed as a rapid setting highway marking coating that provides durability and corrosion and abrasion resistance. Epoplex LS50 is formulated to provide a simple volumetric mixing ratio of two volumes of Component A to one volume of Component B.

USES, APPLICATIONS

Epoplex LS50 may be applied to both cementitious and asphalt highway surfaces as a long-lasting striping material for both edging and center line markings.

PRODUCT ADVANTAGES

- 100% solids chemistry
- Low viscosity suitable for spray application
- Long-term abrasion and corrosion resistance
- Excellent bond strength assures good adhesion to a variety of substrates
- Protection against moisture penetration
- Special formulation chemistry for rapid set at a wide range of temperatures
- High ultraviolet light stability
- High reflective qualities

PACKAGING

Component A: Base Resin and Pigmentation

Component B: Activator/Curing Agent

Both components are available in 55 gallon drums and 250 gallon returnable totes.

STORAGE CONDITIONS

Store both components of Epoplex LS50 in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

IMPORTANT:

Epoplex believes the information contained here to be true and accurate. Information contained here is for evaluation only. Epoplex makes no warranty, expressed or implied, based on this literature. We further reserve the right to modify and change products or literature at any time.

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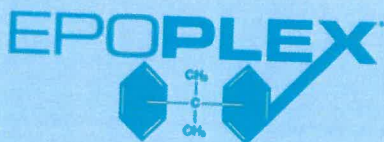
1000 East Park Avenue, Maple Shade, NJ 08052 • 856.667.8399 • FAX 856.779.2963 • Toll Free 800.822.6920

PHYSICAL CHARACTERISTICS

Percent Solids	100%
Epoxy Equivalent Weight300 +/- 50 (ASTM D-1652, Method B)
Total Amine Value475 +/- 50 (ERF-25-68)
Track Free Time @ 77°F/25°C	10 min. or less (ASTM D-711) (with glass beads)
Adhesion	> 300 psi (ASTM D-7234 formerly (100% concrete failure) ASTM D-4541)
Hardness	Min. 80 (ASTM D-2240, Shore D)
Abrasion Resistance	< 80 mg weight loss (ASTM D-4060, formerly ASTM C-501)
Tensile Strength6,000 psi (ASTM D-638)
Compressive Strength12,000 psi (ASTM D-695)
Theoretical Coverage122 sq. ft. per gallon @ 15 mils
Mixing Ratio2 Parts A to 1 Part B, by volume
Chromaticity (Color)within coordinates (ASTM D-6628)
Yellowness Indexing	Max. before QUV 8 (ASTM E-313) Max. after QUV 20
Titanium Dioxide (White)18-25% (ASTM D-476, Type V) (Composition by weight) (Exceeds Type I, II, III & IV)
Non-Lead Organic Yellow5-10% (Composition by weight)

COLOR

Epoplex LS50 is available in highway white, non-lead yellow, and black. Custom colors are available upon request.

**LS50**

PRODUCT DATA

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PRODUCT ADVANTAGES

- 100% solids chemistry
- Low viscosity suitable for spray application
- Long-term abrasion and corrosion resistance
- Excellent bond strength assures good adhesion to a variety of substrates
- Protection against moisture penetration
- Special formulation chemistry for rapid set at a wide range of temperatures
- High ultraviolet light stability
- High reflective qualities

PACKAGING

Component A: Base Resin and Pigmentation

Component B: Activator/Curing Agent

Both components are available in 55 gallon drums and 250 gallon returnable totes.

STORAGE CONDITIONS

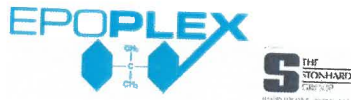
Store both components of Epoplex LS50 in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

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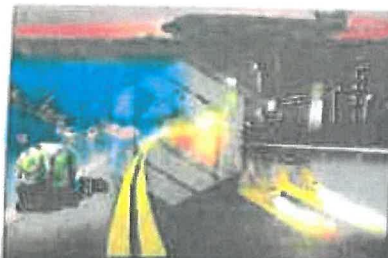


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Compressive Strength	12,000 psi (ASTM D-695)
Theoretical Coverage122 sq. ft. per gallon @ 15 mils
Mixing Ratio2 Parts A to 1 Part B, by volume
Chromaticity (Color)	within coordinates (ASTM D-6628)
Yellowness Indexing	Max. before QUV 8 (ASTM E-313) Max. after QUV 20
Titanium Dioxide (White)18-25% (ASTM D-476, Type V) (Composition by weight)
Non-Lead Organic Yellow5-10% (Composition by weight)

COLOR

Epoplex LS50 is available in highway white, non-lead yellow, and black. Custom colors are available upon request.



HIGHWAY

STANDARD & HIGHWAY SAFETY BEADS

Durable, versatile and highly reflective... in all marking systems

STANDARD

Potters Standard Highway Spheres— Cost-effective Highway Delineation

- Retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.
- Our Standard Highway Marking Spheres provide cost-effective nighttime roadway delineation, and can meet any specific standard glass bead specification in North America.
- Our Standard spheres are consistent in quality and composition. Strict quality control produces spheres that optimize retroreflectivity. Proprietary coatings are available to resist agglomeration, ensure flotation for ideal embedment and improve adhesion for greater durability.
- Standard spheres may be applied as a drop-on in all commercial binders, including waterborne paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- Our beads meet the rigorous heavy metals limitations set forth by state and federal standards.

Standard Spheres: Facts and Figures

- **Size:** 20–80 mesh (850–150 microns); a range of sizes offsets effects of traffic/binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA, polyurea
- **Standards:** Spheres can be supplied to meet state specifications for gradation (size), roundness and coatings. Potters Industries is able to supply glass beads which meet any specific standard glass bead specification in North America.



Potters Industries Inc.
an affiliate of PQ Corporation

Potters respects the environment by recycling over one billion pounds of glass each year.

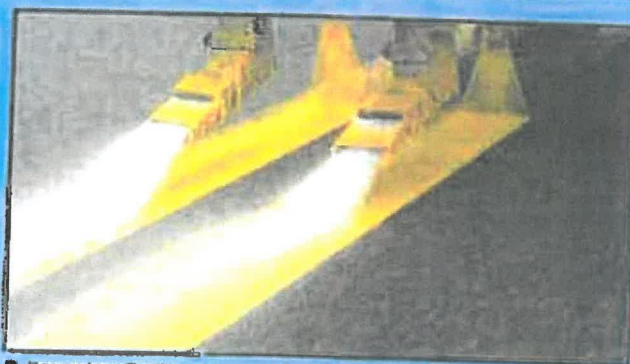
Our beads meet the rigorous heavy metals limitations set forth by state and federal standards.



Typical Standard Bead Size

U.S. Mesh Size	Millimeters	Mass % Passing
16	1.18	100
20	0.850	85-100
30	0.600	75-95
50	0.300	15-35
100	0.150	0-5

AASHTO M-247, Type 1, Roundness — 70%, 75%, and 80% overall by above size.



Potters retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.

See Your Potters Representative or Call (800) 55-BEADS
Visit Us On The Web at www.pottersbeads.com



ENNIS
TRAFFIC SAFETY SOLUTIONS

PRODUCT DATA SHEET

WHITE HYDROCARBON EXTRUDE THERMOPLASTIC TRAFFIC MARKING MATERIAL 884415

DESCRIPTION:

Ennis Traffic Safety Solutions' White Hydrocarbon Extrude Thermoplastic reflectorized pavement marking material is intended for use on Portland cement or asphalt concrete road surfaces. It is a 100% solid material that must be pre-heated to a temperature of at least 425°F (218°C), and applied in a molten state to a pavement surface at a temperature of at least 400°F (204°C). Roadway surface temperature at the time of application shall not be less than 50°F (10°C) and shall be rising. The road surface shall be absolutely dry with no forecasted rain for the day. Upon cooling to normal pavement temperature, thermoplastic provides a very durable marking material for high traffic areas.

CHARACTERISTICS OF FINISHED THERMOPLASTIC: (typical)

Binder, % by weight	23.0
Glass Beads, % by weight	31.0
Tests on material after 4 hours heat with stirring at 425°F \pm 2°F (218°F \pm 1°C)	
Softening Point, °C	102.0
Tensile Bond Strength, psi	310
Hardness, Shore A2 @ 115°F (46°C)	58
Daylight Reflectance	81.09
Specific Gravity	2.05

DRY TIME

When applied to the pavement, the thermoplastic material shall be sufficiently tack-free to carry traffic in not more than 2 minutes when pavement surface temperature is at 50 \pm 3°F (10°C), and not more than 10 minutes when pavement surface temperature is 130 \pm 3°F (54°C).

WHEN TO USE PRIMER

Use the thermoplastic manufacturer's recommended primer on all Portland concrete, and on asphalt surfaces that are more than 2 years old, oxidized and/or have aggregate exposed. Check to make sure that the coverage is adequate and allow primer to cure according to manufacturer's instructions before applying thermoplastic.

PACKAGING

Ennis Traffic Safety Solutions' White Hydrocarbon Extrude Thermoplastic is available in granular form packaged in 50lb. (22.7kg) meltable bags that are compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

MATERIAL SAFETY DATA SHEET AVAILABLE UPON REQUEST Rev. 12/06/2010

The Product Data offered herein is, to the best of our knowledge, true and accurate, but all recommendations are made without warning, expressed or implied. Because the conditions of use are beyond our control, neither Ennis Traffic Safety Solutions, 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. 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 Traffic Safety Solutions
5910 N. Central Expressway, Suite 1050
Dallas, TX 75206
1-800-331-8118



PRODUCT DATA SHEET

YELLOW LEADFREE HYDROCARBON EXTRUDE THERMOPLASTIC TRAFFIC MARKING MATERIAL 884665

DESCRIPTION:

Ennis Traffic Safety Solutions' Yellow Leadfree Hydrocarbon Extrude Thermoplastic reflectorized pavement marking material is intended for use on Portland cement or asphalt concrete road surfaces. It is a 100% solid material that must be pre-heated to a temperature of at least 425°F (218°C), and applied in a molten state to a pavement surface at a temperature of at least 400°F (204°C). Roadway surface temperature at the time of application shall not be less than 50°F (10°C) and shall be rising. The road surface shall be absolutely dry with no forecasted rain for the day. Upon cooling to normal pavement temperature, thermoplastic provides a very durable marking material for high traffic areas.

CHARACTERISTICS OF FINISHED THERMOPLASTIC: (typical)

Binder, % by weight	22.3
Glass Beads, AASHTO M-247, % by weight	31.0
Tests on material after 4 hours heat with stirring at 425°F \pm 2°F (218°F \pm 1°C)	
Softening Point, °C	102.3
Tensile Bond Strength, psi	305
Hardness, Shore A2 @ 115°F (46°C)	52
Daylight Reflectance	50.19
Specific Gravity	2.05

DRY TIME

When applied to the pavement, the thermoplastic material shall be sufficiently tack-free to carry traffic in not more than 2 minutes when pavement surface temperature is at 50 \pm 3°F (10°C), and not more than 10 minutes when pavement surface temperature is 130 \pm 3°F (54°C).

WHEN TO USE PRIMER

Use the thermoplastic manufacturer's recommended primer on all Portland concrete, and on asphalt surfaces that are more than 2 years old, oxidized and/or have aggregate exposed. Check to make sure that the coverage is adequate and allow primer to cure according to manufacturer's instructions before applying thermoplastic.

PACKAGING

Ennis Traffic Safety Solutions' Yellow Hydrocarbon Extrude Thermoplastic is available in granular form packaged in 50lb. (22.7kg) meltable bags that are compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

MATERIAL SAFETY DATA SHEET AVAILABLE UPON REQUEST Rev. 12/06/2010

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Ennis Traffic Safety Solutions
5910 N. Central Expressway, Suite 1050
Dallas, TX 75206
1-800-331-8118