Traffic & Zone Products

10.05

HOTLINE® FAST DRY LATEX TRAFFIC MARKING PAINT

TM2152 White
TM2153 Lead Free Yellow

PRODUCT INFORMATION

Revised 8/05

Product Description

HOTLINE LATEX TRAFFIC PAINTS are very fast drying paints for use in marking parking lots, airports, and roads.
TM2152 and TM2153 may be applied ambient airless or conventional, or may be heated for even faster dry. TM2152 and TM2153 conform to current VOC regulations and to the requirements of Federal Specification TT-P-1952D Types I and II, and dry to no pickup in less than ten minutes when properly applied at ambient conditions, or one to two minutes when heated to 140° to 150°F. High relative humidity has significantly less effect on the dry time of these products as compared to other latex traffic paints.

Recommended Uses

For marking airfields, highways, or parking lots when faster dry times are needed and water based or low VOC coatings are required. These products are less affected by relative humidity than most latex paints, and are ideal for striping when very fast dry times are required.

- Striping contractors
- Shopping centers
- Plant maintenance
- Streets and highways
- Municipalities
- Parking lots
- State DOTs

Product Characteristics

Finish: Flat

Color: White, Yellow

Volume Solids: 60% minimum

Weight Solids: 75% minimum

VOC (EPA Method 24): <100 g/L; 0.85 lb/gal

Recommended Spreading Rate per coat:
Approximately 320 lineal feet of standard 4" stripe per gallon

Wet mils:	15.0
Dry mils:	9.0
Coverage:	110 sq ft/gal approximate

NOTE: Brush or roll application not recommended.
If the asphalt is insufficiently cured, applying a thin coat (approximately 1/2 the recommended dft) generally reduces the extent of lifting and cracking.

Drying Schedule @ 15.0 mils wet @ 50% RH:

	@ 77°F
To touch:	10 minutes
No traffic pickup after	10 minutes

Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: 12 months, unopened
Store indoors at 40°F to 100°F.

Flash Point: 150°F, PMCC

Reducer/Clean Up: Water

Performance Characteristics

TEST	METHOD	TT-P-1952D REQUIREMENTS	RESULT
Abrasion Resistance (falling sand)	ASTM D969 TT-P-1952D	150 liters	150 liters
Bead Adhesion	ASTM D969	N/A	150 liters
Bleed Resistance	ASTM D969 ASTM D968	N/A	8 minimum
Bleed Ratio	TT-P-1952D	0.95 min	0.96 min
Color (yellow)	Fed. Std. 595 #33538	6 CIELAB	pass
Dry-No-Pickup	ASTM D711	10 minutes max.	10 minutes
Dry Opacity (Contrast ratio)	Fed. Met. 141C at 5 mils wet	0.92 minimum	0.92 minimum
Dry Through (early washout)	TT-P-1952D	2 hrs @ 90% RH	2 hrs @ 90% RH
Flash Point	ASTM D3278	N/A	150°F
Fineness of Grind	ASTM D1210	3 Hegman min.	3 Hegman min.
Flexibility	TT-P-1952D	Pass	Pass
Freeze-Thaw Resistance	ASTM D2243	3 cycles	5 cycles
Heat Shear Stability	TT-P-1952D	68 -105 KU	68 -105 KU
Reflectance (white only)	ASTM-E97	84% minimum	84% minimum
Scrub Resistance	ASTM D2486	500 cycles min.	500 cycles min.
Viscosity	ASTM D562	80 -90 KU	80-90 KU
Volatile Organic Compounds	ASTM D3960 excluding water	150 g per liter	87 g/l 0.73 lbs/gal

Composition Information

Total Weight: 60% minimum by volume
75% minimum by weight
Pigment Weight Percent: 60 to 62%
Non-Volatile Vehicle: 40% minimum
Vehicle Type: Acrylic Latex Polymer

As per the requirements of TT-P-1952D, paragraph 3.1.2, these products do not contain mercury, lead, hexavalent chromium, toluene, chlorinated solvents, hydrolyzable chlorine derivatives, ethylene based glycol ethers or their acetates.

continued on back

Traffic & Zone Products

10.05

HOTLINE® FAST DRY LATEX TRAFFIC MARKING PAINT

TM2152 WHITE
TM2153 LEAD FREE YELLOW

PRODUCT INFORMATION

RECOMMENDED SYSTEMS

Cured Asphalt, Concrete, Brick, and other Surfaced Highways:

1 ct. Hotline Fast Dry Latex Marking Paint
@ 15 mils wet, 9.0 mils dft, approximately 320 lineal feet of standard 4" stripe per gallon

The systems listed above are representative of the product's use. Other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Concrete:	Cured, clean, dry, sound
Asphalt:	Cured, clean, dry, sound
Brick:	Cured, clean, dry, sound

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:	50°F minimum, 110°F maximum (air, surface, and material) At least 5°F above dew point
Relative humidity:	85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 5 gallon containers

Weight per gallon:

White:	14.04 ± 0.2 lbs/gal
Yellow:	13.67 ± 0.2 lbs/gal

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Traffic & Zone Products

10.05A

HOTLINE® FAST DRY LATEX TRAFFIC MARKING PAINT

TM2152 WHITE
TM2153 LEAD FREE YELLOW

APPLICATION BULLETIN

Revised 8/05

SURFACE PREPARATION

Surfaces should be clean, dry and free from loose or peeling paint. Do not apply when air or surface temperatures are below 50°F, or when the relative humidity exceeds 85%, or when the temperature falls below the dew point.

The presence of concrete sealers or efflorescence on new concrete may interfere with adhesion and should be removed by extended weathering, etching, or abrasive blasting.

Most previously painted lines may be repainted without additional surface preparation, provided the old paint is still tightly adhered to the surface. However, multiple layers of paint will eventually peel and require removal.

New asphalt surfaces should ideally be allowed to age several months before striping. Latex paint will not bleed on most asphalt surfaces; however, shrinkage of the paint film during curing can cause new asphalt to lift or crack. Exceeding the recommended film thickness will increase the tendency to cause asphalt lifting. Placing an inconspicuous test stripe to determine if a new asphalt surface has cured sufficiently to paint is recommended.

If it is necessary to paint new asphalt surfaces, do not exceed an application rate of 8 mils wet (approximately 200 sq ft/gal). Special care should be given to laps and edges of stencils to prevent excessive film thickness.

APPLICATION CONDITIONS

Temperature:	50°F minimum, 110°F maximum (air, surface, and material) At least 5°F above dew point
Relative humidity:	85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up ..... Water

Airless Spray Line Striping Equipment
- Pressure ..... 1800 - 2700 psi
- Hose ..... 1/4" - 3/8" ID
- Tip ..... .015" - .019"
- Filter ..... 60 mesh
- Reduction ..... As needed up to 12½% by volume

Conventional Spray Line Striping Equipment
- Gun ..... Binks 21 (Bleeder)
- Fluid Nozzle ..... #68
- Air Nozzle ..... Internal mix, #709
- Atomization Pressure .. 20 - 80 psi
- Fluid Pressure ..... 30 - 60 psi
- Reduction ..... As needed up to 12½% by volume

Brush ..... Not recommended

Roller ..... Not recommended

NOTE: Fluid and atomization pressures are dependent on environmental conditions. Use the lowest pressures necessary to achieve a "flat line".

If the striping machine is also used for solvent based paints, care must be taken to prevent contamination of the paint types.

Heated air atomized spray may also be used to enhance the sprayability and to further decrease the dry time. If heat is used, the system must be designed to prevent paint temperatures from exceeding 160°F at any time.

Important: All metallic wetted parts must be stainless steel. Contact with brass, cold steel, and especially galvanized steel may cause gelation of the paint.

If specific application equipment is not listed above, equivalent equipment may be substituted.

continued on back

Traffic & Zone Products

10.05A

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APPLICATION BULLETIN

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing, stirring, or power agitation before use.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:
Approximately 320 lineal feet of standard 4" stripe per gallon

Wet mils:	15.0
Dry mils:	9.0
Coverage:	110 sq ft/gal approximate

NOTE: Brush or roll application not recommended.
If the asphalt is insufficiently cured, applying a thin coat (approximately 1/2 the recommended dft) generally reduces the extent of lifting and cracking.

Drying Schedule @ 15.0 mils wet @ 50% RH:

	@ 77°F
To touch:	10 minutes
No traffic pickup after	10 minutes

Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

PERFORMANCE TIPS

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with water.

Asphalt surfaces generally require aging prior to painting.

If the asphalt is insufficiently cured, applying a thin coat (approximately 1/2 the recommended dft) generally reduces the extent of lifting and cracking.

Check adhesion by applying a test strip to determine the readiness for painting.

The coating may be made into reflective paint by dropping on glass beads while the paint is still wet.

Painted surfaces can become slippery when wet. Traffic paints are not intended for use as floor paints, and should not be used to paint large areas subject to pedestrian traffic. For instance, painting an entire traffic stall is not recommended.

Heated air atomized spray may also be used to enhance the sprayability and to further decrease the dry time. If heat is used, the system must be designed to prevent paint temperatures from exceeding 160°F at any time.

Do not paint on wet surfaces.

Do not paint when the relative humidity is above 85%.

Do not paint when the temperature is below 50°F.

Cool, damp conditions will prolong the drying time.

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturers' safety recommendations when using mineral spirits.

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