



# Traffic & Zone Products

# HOTLINE® FAST DRY LATEX TRAFFIC MARKING PAINT

TM2152  
TM2153

WHITE  
LEAD FREE YELLOW

Revised 10/09

## PRODUCT INFORMATION

10.05

### 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-1952E 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°F (60°C) to 150°F (66°C). High relative humidity has significantly less effect on the dry time of these products as compared to other latex traffic paints.

- Meets TT-P-1952D types I and II

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Flat
<b>Color:</b>	White, Yellow
<b>Volume Solids:</b>	60% minimum
<b>Weight Solids:</b>	75% minimum
<b>VOC (EPA Method 24):</b>	<100 g/L; 0.85 lb/gal

#### Recommended Spreading Rate per coat:

Approximately 320 lineal feet of standard 4" stripe per gallon

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>15.0</b>	375
<b>Dry mils (microns)</b>	<b>9.0</b>	225
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>110</b>	2.7
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>960</b>	23.5

*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 (375 microns):

@ 77°F/25°C

50% RH

**To touch:** 10 minutes

**No traffic pickup after:** 10 minutes

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

<b>Shelf Life:</b>	12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
<b>Flash Point:</b>	150°F (66°C), PMCC

### 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

### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	TT-P-1952E Requirements	Results
<b>Abrasion Resistance (falling sand)</b>	ASTM D968	150 liters	150 liters
<b>Bead Adhesion</b>	ASTM D968	N/A	150 liters
<b>Bleed Resistance</b>	ASTM D969	N/A	8 minimum
<b>Bleed Ratio</b>	ASTM D969	0.95 min	0.96 min
<b>Color (yellow)</b>	Fed Std. 595 #33538	6 CIELAB	Pass
<b>Dry-No-Pickup</b>	ASTM D711	10 minutes max.	10 minutes
<b>Dry Opacity (Contrast ratio)</b>	Fed. Met. 141C at 5 mils wet	0.92 minimum	0.92 minimum
<b>Dry Through (early washout)</b>	ASTM D1640	2 hrs @ 90% RH	2 hrs @ 90% RH
<b>Flash Point</b>	ASTM D3278	N/A	150°F (66°C)
<b>Fineness of Grind</b>	ASTM D1210	3 Hegman min.	3 Hegman min.
<b>Flexibility</b>	ASTM D522	Pass	Pass
<b>Freeze-Thaw Resistance</b>	ASTM D2243	3 cycles	5 cycles
<b>Heat Shear Stability</b>	ASTM D1849	68-105 KU	68-105 KU
<b>Reflectance (white only)</b>	ASTM-E97	85% minimum	85% minimum
<b>Scrub Resistance</b>	ASTM D2486	500 cycles min.	500 cycles min.
<b>Viscosity</b>	ASTM D562	80-90 KU	80-90 KU
<b>Volatile Organic Compounds</b>	ASTM D3960 excluding water	150 g per liter	87 g/l; 0.73 lbs/gal

### COMPOSITION INFORMATION

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

As per the requirements of TT-P-1952E, 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.



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**RECOMMENDED SYSTEMS**

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

1 ct. Hotline Fast Dry Latex Marking Paint  
@ 15 mils (375 microns) wet, 9.0 mils (225 microns) 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, loose rust, 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

**Surface Preparation Standards**

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

**TINTING**

Do not tint.

**APPLICATION CONDITIONS**

Temperature: 50°F (10°C) minimum, 110°F (43°C) maximum  
(air, surface, and material)  
At least 5°F (2.8°C) above dew point  
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

**ORDERING INFORMATION**

Packaging: 5 gallon (18.9L) containers

Weight per gallon:  
White: 14.10 ± 0.2 lbs/gal ; 1.68 Kg/L  
Yellow: 13.72 ± 0.2 lbs/gal ; 1.64 Kg/L

**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.

**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.

**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.



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## APPLICATION BULLETIN

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### SURFACE PREPARATIONS

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

Surfaces should be clean, dry and free from loose or peeling paint. Do not apply when air or surface temperatures are below 50°F (10°C), 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 (200 microns) wet (approximately 200 sq ft/gal / 4.9 m<sup>2</sup>/L). Special care should be given to laps and edges of stencils to prevent excessive film thickness.

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-

### APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 110°F (43°C) maximum (air, surface, and material)  
At least 5°F (2.8°C) 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 .....0.015" - .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 (71°C) 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.



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### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix paint thoroughly to a uniform consistency with low speed power agitation prior to 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

	Minimum	Maximum
<b>Wet mils</b> (microns)	<b>15.0</b>	375
<b>Dry mils</b> (microns)	<b>9.0</b>	225
<b>~Coverage sq ft/gal</b> (m <sup>2</sup> /L)	<b>110</b>	2.7
<b>Theoretical coverage sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	<b>960</b>	23.5

*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 (375 microns):

@ 77°F/25°C  
50% RH

**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.

### 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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### 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 (10°C).

Cool, damp conditions will prolong the drying time.

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

### SAFETY PRECAUTIONS

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### WARRANTY

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