

# **Traffic** Zone **Products**

## SETFAST® LATEX TRAFFIC MARKING PAINTS

TM2132 RED TM2133 BLUE TM2135 **BLACK** 

Revised 9/09

### PRODUCT INFORMATION

10.02

### PRODUCT DESCRIPTION

SETFAST LATEX TRAFFIC PAINTS are conventional dry (nonheated application) water based paints intended for use in marking parking lots, airports, and roads.

- Fast drying
- High visibility
- Abrasion resistant
- Low VOC
- Water cleanup
- Ready to use
- Glass beads can be added for making reflective markings

## RECOMMENDED USES

For marking airfields, highways, or parking lots, when colors other than standard white and yellow are needed, and water based or low VOC coatings are required.

Red: No parking zones, fire lanes, curbs

Blue: Handicap parking spaces

Black: Painting out existing markings, contrast to concrete

- · Air fields
- State DOTs
- Shopping centers
- Municipalities
- · Striping contractors · Plant maintenance
- Streets and highways

### PRODUCT CHARACTERISTICS

Flat Finish:

Color: Red, Blue, Black

Volume Solids: 52% minimum

Weight Solids: 68% minimum

VOC (EPA Method 24): <100 g/L; 0.83 lb/gal

## PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	Taber/ASTM D4060	220 min wear index
Bleeding Ratio	ASTM D969	0.95 minimum
Color	Fed. Std. 595b ASTM D2244 <6.0 CIELAB	Red #31136, Blue #35180, Black #37038
Dry No Pickup	ASTM D711	45 minutes maximum
Dry Opacity (Contrast Ratio)	Fed. Mtd. 141C	0.95 @ 5.0 mils
Fineness of Grind	ASTM D1210	3 Hegman minimum
Flexibility	ASTM D522	Pass
Freeze-Thaw Stability	ASTM D2243	5 cycles minimum
Scrub Resistance	ASTM D2486	400 cycles minimum
Viscosity	ASTM D562	80 to 90 KU

### Recommended Spreading Rate per coat:

Approximately 320 lineal feet of standard 4" stripe per gallon **Minimum** Maximum

Wet mils (microns)	<b>15.0</b> 375	
Dry mils (microns)	<b>8.3</b> 208	
~Coverage sq ft/gal (m²/L)	<b>110</b> 2.7	
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	<b>832</b> 20.4	

NOTE: Brush or roll application for small areas only.

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

45 minutes

No traffic pickup after: 45 minutes

To touch:

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

Shelf Life: 12 months, unopened

Store indoors at 40°F (4.5°C) to 100°F (38°C)

Flash Point: 145°F (63°C), PMCC

Reducer/Clean Up: Water

### Composition Information

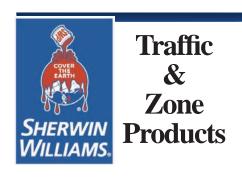
**Total Solids:** 52% minimum by volume

68% minimum by weight

**Pigment Weight Percent:** 48% minimum

Non-Volatile Vehicle: 38% minimum

Contains no lead or chromium



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### RECOMMENDED SYSTEMS

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

1 ct. Setfast Latex Traffic Marking Paint
 @ 15 mils (375 microns) wet, 8.3 mils (208 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 Commercial Blast		Sa 2.5 Sa 2	Sa 2.5 Sa 2	SP 10 SP 6	2
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
riand foor Cleaning	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	-
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### **T**INTING

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

## ORDERING INFORMATION

Packaging: 5 gallon (18.9L) containers

Weight:

Red:  $12.34 \pm 0.2$  lbs/gal; 1.485 Kg/L Blue:  $12.51 \pm 0.2$  lbs/gal; 1.50 Kg/L Black:  $12.38 \pm 0.2$  lbs/gal; 1.49 Kg/L

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

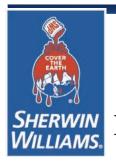
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### WARRANTY

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

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## **APPLICATION BULLETIN**

10.02

### 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 $^2$ /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 Near White Metal		Sa 3 Sa 2.5	Sa 3 Sa 2.5	SP 5 SP 10	1 2
Commercial Blast		Sa 2.5 Sa 2	Sa 2.5 Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	-
Power Tool Cleaning			C St 3 D St 3	SP 3 SP 3	-
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### 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.

These products are formulated for airless spray or conventional air atomized spray without thinning at ambient temperatures above 50°F.

Reducer/Clean Up ......Water

### **Airless Spray Line Striping Equipment**

Pressure	1800-2700 psi
Hose	1/4" - 3/8" ID
Tip	015" - 019"
Filter	

Reduction.....As needed up to 121/2% 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
Deduction	As pooded up to 11

Reduction.....As needed up to 12½% by volume

### Brush, small areas only

Brush	Nylon/polyester
Reduction	As needed up to 121/2% by volume

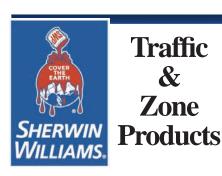
### Roller, small areas only

Cover	3/8" woven with solvent resistant co	re
Reduction	As needed up to 121/2% by volume	

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 paint, care must be taken to avoid solvent contamination.

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



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### **APPLICATION BULLETIN**

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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
Wet mils (microns)	<b>15.0</b> 375	
Dry mils (microns)	<b>8.3</b> 208	
~Coverage sq ft/gal (m²/L)	<b>110</b> 2.7	
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	<b>832</b> 20.4	

NOTE: Brush or roll application for small areas only.

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 45 minutes

**To touch:** 45 minutes **No traffic pickup after:** 45 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.

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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### **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 manufacturer's safety recommendations when using mineral spirits.

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