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 (non-heated 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

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Red, Blue, Black
Volume Solids:	52% minimum
Weight Solids:	68% minimum
VOC (EPA Method 24):	<100 g/L; 0.83 lb/gal

Recommended Spreading Rate per coat:

Approximately 320 lineal feet of standard 4" stripe per gallon

	Minimum	Maximum
Wet mils (microns)	**15.0** 375	
Dry mils (microns)	**8.3** 208	
~Coverage sq ft/gal (m^2/L)	**110** 2.7	
Theoretical coverage sq ft/gal (m^2/L) @ 1 mil / 25 microns dft	**832** 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

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

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

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
- Streets and highways
- Municipalities
- Striping contractors
- Plant maintenance

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

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		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	-
Power Tool Cleaning	Rusted	C St 3	C 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:	
Red:	12.34 ± 0.2 lbs/gal ; 1.485 Kg/L
Blue:	12.51 ± 0.2 lbs/gal ; 1.50 Kg/L
Black:	12.38 ± 0.2 lbs/gal ; 1.49 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.

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.

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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 m²/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	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	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.

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.....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, small areas only
- Brush.....Nylon/polyester
- Reduction.....As needed up to 12½% by volume

Roller, small areas only
- Cover .....3/8" woven with solvent resistant core
- Reduction.....As needed up to 12½% 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)	**15.0**	375
Dry mils (microns)	**8.3**	208
~Coverage sq ft/gal (m^2/L)	**110**	2.7
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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*
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.

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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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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