



# Traffic & Zone Products

# PROMAR® LOW VOC ACRYLIC COPOLYMER TRAFFIC MARKING PAINT

TM5712  
TM5713

WHITE  
LEAD FREE YELLOW

Revised 9/09

## PRODUCT INFORMATION

10.12

### PRODUCT DESCRIPTION

PROMAR® VOC Compliant Acrylic Copolymer Traffic Paint is a conventional dry (non-heat applied) acetone based paint. Acetone, as the main solvent, has Exempt Status under Federal law and does not contribute harmful VOC's. PROMAR® VOC Compliant Acrylic Traffic Paint is 100% acrylic, which offers the following outstanding properties:

- Faster dry and hardness development.
- Performance similar to PROMAR Chlorinated Rubber Traffic Paint.
- Less dirt pick-up, improved durability.

### PRODUCT CHARACTERISTICS

**Color:** White, Lead Free Yellow (Fed Std 33538)

**Finish:** Flat

**Curing Mechanism:** Solvent Evaporation

**Packaging:** 5-gallon pails

#### Recommended Spreading Rate per coat:

320 lineal feet of standard 4" stripe per gallon (calculated theoretical, no loss)

	Minimum	Maximum
<b>Wet mils</b> (microns)	15.0	375
<b>Dry mils</b> (microns)	7.5	188

#### Drying Schedule:

@ 77°F/25°C  
50% RH

**To touch:** ≤ 10 minutes  
**No traffic pickup after:** N/A

### RECOMMENDED USES

PROMAR® VOC Compliant Acrylic has been developed for use over concrete, asphalt, brick and other surfaced highways and parking lots. It can also serve as a binder for glass beads to make reflective type markings. Do not use this product over uncured asphalt surfaces such as commonly found on tennis courts, asphalt driveways and some parking lots.

- Parking Lots
- Striping Contractors
- Plant Maintenance
- Municipalities
- Streets and Highways
- Shopping Centers

### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Bleed Ratio</b>	TT-P-115F	0.95 min (white & yellow)
<b>Directional Reflectance</b>	ASTM E97	84% min (white); 50% min (yellow)
<b>Dry-No-Pickup</b>	ASTM D-711	10 mins max (white & yellow)
<b>Dry Opacity (contrast ratio) - White</b>	Fed. Test Method 141C (5 mils bird applicator)	0.92 min.
<b>Dry Opacity (contrast ratio) - Yellow</b>	Fed. Test Method 141C @ 15 mils	0.97 min.
<b>Hegman Grind</b>	ASTM D-1210	3 min. (white); 2 min. (yellow)
<b>Viscosity</b>	ASTM D-562	75-90 KU (white & yellow)
<b>Water Resistance</b>	TT-P-115-F	Pass (white & yellow)

### COMPOSITION INFORMATION

<b>Total Solids:</b>	
White	70 +/- 3% (weight) 47 +/- 3% (volume)
Yellow	70 +/- 3% (weight) 48 +/- 3% (volume)
<b>Pigment Weight Percent:</b>	
White	55 +/- 3%
Yellow	56 +/- 3%
<b>Vehicle Type:</b>	
White	Acrylic Copolymer
Yellow	Acrylic Copolymer
<b>Density :</b>	
White	11.76 +/- 0.3 lbs/gal ; 1.43 Kg/L
Yellow	11.81 +/- 0.3 lbs/gal ; 1.41 Kg/L
<b>V.O.C.</b>	
White	<150 gms/liter
Yellow	<150gms/ltr (1.25 lbs/gal)



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### RECOMMENDED SYSTEMS

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

1 ct. PROMAR Acrylic Low VOC Acrylic Copolymer Traffic Marking Paint @ 15 mils (375 microns) wet, 7.5 mils (188 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	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-

### TINTING

**Tinting:** White only may be tinted with up to 4-oz. colorant per gallon. Exterior grade colorants only should be used. Handicap Blue may be obtained by tinting the White with 2-3 oz. of blue per gallon.

### APPLICATION CONDITIONS

Temperature: Air, surface, material: 40°F (4.5°C) - 90°F (32°C)  
(at least 5°F/2.8°C above the dew point)

Relative Humidity: 85% max.

### ORDERING INFORMATION

Packaging: 5 gallon (18.9L) containers

Weight: White: 11.76 +/- 0.3 lbs/gal ; 1.43 Kg/L  
Yellow: 11.81 +/- 0.3 lbs/gal ; 1.41 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.

The presence of concrete sealers or efflorescence of 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 will require removal.

New asphalt surfaces should ideally be allowed to age several months before striping. Solvent-based paints may cause bleeding through the paint. Placing an inconspicuous test stripe to determine if the asphalt has aged sufficiently to use solvent paint is recommended. If it is necessary to paint a fresh asphalt surface, use a latex striping paint following the recommended procedures.

#### 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: Air, surface, material: 40°F (4.5°C) - 90°F (32°C)  
(at least 5°F/2.8°C above the dew point)

Relative Humidity: 85% max.

### 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.

**Methods:** Airless and Conventional Spray

**Conventional Spray:** Typical fluid tip size is about 0.1" orifice, with a matching fan cap designed for striping application. Working pressures will vary with ambient temperatures. The correct pressure is the lowest pot and atomizing pressure that produces a flat line of the correct thickness. Heated air atomized spray may also be used, allowing improved spray ability but not necessarily dry time.

**Airless Spray:** Typical working pressures are 1500 to 2000 psi, using a .015" to .019" tip size in walk behind striping machines. 50 to 100 mesh filters at the gun are recommended.

This traffic marking paint is not recommended for brush or roller application.

If the striping machine is used with waterborne paint, care must be taken to prevent contamination of the paint types.

**Thinning and cleanup:** Thinning should not normally be required. Additional solvent could raise the intended VOC, and may slow dry time or promote bleeding on asphalt surfaces.

Clean up with Xylene, Toluene, or MEK.

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 material to a uniform consistency with low speed power agitation. Some minor separation of solvent may occur on the surface.

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

#### Recommended Spreading Rate per coat:

320 lineal feet of standard 4" stripe per gallon (calculated theoretical, no loss)

	Minimum	Maximum
<b>Wet mils</b> (microns)	15.0	375
<b>Dry mils</b> (microns)	7.5	188

#### Drying Schedule:

@ 77°F/25°C  
50% RH

**To touch:** ≤ 10 minutes  
**No traffic pickup after:** N/A

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 Xylene R2K4 or Acetone, R6K9. Clean tools immediately after use with Xylene R2K4 or Acetone, R6K9. Follow manufacturer's safety recommendations when using any solvent.

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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 Xylene R2K4 or Acetone, R6K9.

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.

Do not paint on wet surfaces.

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

Do not paint when the temperature is below 40°F (4.5°C).

Cool, damp conditions will prolong the drying time.

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

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