

# LIQUID THERMOPLASTIC TRAFFIC MARKING PAINT

(Meets TT-P-1952E, TT-P-1952F Type III)

**SMT-300**

REVISED 06/16/17

## PRODUCT DESCRIPTION & BENEFITS

SealMaster Liquid Thermoplastic Traffic Marking Paint is a highperformance, highly durable Waterborne traffic marking material. Unique patented cross linking technology provides durability normally associated with Hot-melt Thermoplastics and epoxies. SealMaster Liquid Thermoplastic meets and exceeds the performance requirements of Federal Specification TTP-1952E, TTP-1952F Type III. SealMaster Liquid Thermoplastic can be applied with conventional spray equipment (with stainless steel components) to asphalt, concrete, or existing road markings that are adhering well to the pavement surface. Features include:

- Unique crosslinking chemistry
- Can use existing spray equipment (with stainless steel components)
- Safety, no heating required as with hot melt thermoplastics.
- Single component system, no need to blend as with epoxy systems.
- Can be used over cement or asphalt surfaces.
- Meets and exceeds TT-P-1952 E, TT-P-1952 F Type III specifications.

## BASIC USES

Highways, roads, streets, intersections, legends and cross walks. Also ideal for highly durable parking lot markings.

## COMPOSITION

100% acrylic emulsion cross-linking resins, specialty pigments, surfactants, and fillers.

## SIZES

55-gallon drums, and 5-gallon pails.

## COLOR

White, Yellow.

## LIMITATIONS

Apply to clean dry surface when surface and air temperature is not expected to drop below 50°F or exceed 120°F in a 24 hour period.

## TECHNICAL DATA

SealMaster Liquid Thermoplastic Traffic Marking Paint meets and exceeds the chemical composition and performance requirements of Federal Specification TT-P-1952 E, TT-P-1952 F Type III.

CHEMICAL & PHYSICAL ANALYSIS			
ASTM	DESCRIPTION	WHITE	YELLOW
	Weight per Gallon	14.1 lbs/gal	13.5 lbs./gal
D2369	Volatile Organic Content (VOC)	<150 g/l	<150 g/l
D562	Viscosity (KU)	70-110	70-110
D2697	Solids by Volume %	61	61
	Solids by Weight %	77.5	76.5
D3723	Pigment Volume Content %	60.00	60.00
D3723	Pigment Solids by Weight %	61.10	62.00
D2805	Dry Opacity	.965	.965
E97	Directional Reflectance	86%	50%
D711	Drying Time for No Pickup, min	<6 min	<6 min
D1210	Fineness of Dispersion, Hegman	3	3
	Heat-Shear Stability Consistency, KU	68,105	68,105
D969	Bleeding Ratio	.95	~
	Non-Volatile Portion of Vehicle shall be 100% cross-linking Acrylic Resin	PASSES	PASSES
	Appearance: - Smooth and Uniform Film	PASSES	PASSES
D1849	Accelerated Package Stability: - No change in consistency greater than 5 KU	PASSES	PASSES
D522	Flexibility: The paint film shall not blister, wrinkle, lose adhesion, change color, or show other evidence of deterioration	PASSES	PASSES
	Water Resistance: The paint film shall not blister, wrinkle, lose adhesion, change color, or show other evidence of deterioration	PASSES	PASSES
D2243	Freeze-Thaw Stability: - Paint shall show no coagulation or flocculation change in consistency greater than 10 KU or decrease in scrub resistance by more than 10 percent	PASSES	PASSES
D1729	Yellow Color Match to Federal Standard 595	~	PASSES
	Skinning Resistance	PASSES	PASSES
D968	Abrasion Resistance - Not less than 150 liters of sand to abrade the paint film through the substrate	PASSES	PASSES
D2486	Scrub Resistance	<1500 cycles	<1500 cycles
D1394	Titanium Dioxide Content - the white paint shall contain a minimum of 120 g/l (1 lb./gal) rutile titanium dioxide	PASSES	~

NOTE: Additional ASTM Test Methods employed were D1640, D2244, D3335, D3718, E-1347, G154.  
THIS PRODUCT DOES NOT CONTAIN MERCURY, LEAD, HEXAVALENT CHROMIUM, TOLUENE, CHLORINATED SOLVENTS, HYDROLYSABLE CHLORINE DERIVATIVES, ETHYLENE-BASED GYCOL OR THEIR ACETATES, OR CARCINOGENS.

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## ENVIRONMENTAL CONSIDERATIONS

SealMaster Liquid Thermoplastic Traffic Marking Paint is an environmentally friendly 100% acrylic emulsion traffic paint containing less than 100 grams per liter volatile organic content (VOC).

## PHYSICAL/CHEMICAL PROPERTIES:

SealMaster Liquid Thermoplastic Traffic Marking Paint meets or exceeds TT-P-1952E, TT-P-1952F Type III when tested in accordance with the following ASTM test methods: D2369, D562, D2697, D3723, D2805, D711, D1210, D969, D1849, D522, D2243, D1729, D968, D2486, D1394, D1640, D2244, D3335, D3718, E1347, G154.

## INSTALLATION

Asphalt and concrete pavement surfaces shall be clean and free from all loose materials and dirt. New asphalt surfaces should cure sufficiently to be free of light oils on the surface (4 weeks). Allow freshly applied pavement sealer to cure for at least 24 hours prior to applying traffic paint.

## METHODS

Apply SealMaster Liquid Thermoplastic Traffic Marking Paint with spray equipment (with stainless steel components). Recommended spray tip size is .019" to .023".

## MIXING PROCEDURES

Stir well before using. Use as is. Do not dilute.

## APPLICATION

For maximum durability apply at a wet film thickness of 30- 35 mils (155-180 ft. of 4-inch line per gallon). When applying at 30-35 wet mils, it is recommended that a larger particle size glass bead be used for optimum retroreflectance and wet night visibility. A bead drop rate of approximately 7 lbs./gal. of paint for a 4-inch line and 30-35 mil thickness is a suitable range which can be fine tuned for optimum performance.

The dry-to-no-pickup time for a 30-35 mil thickness application is typically 5 minutes or less depending on conditions. Liquid Thermoplastic can be applied with standard airless spray equipment with stainless steel components.

## COVERAGE

155-180 ft. of 4-inch line per gallon at 30-35 mils wet film thickness.

## PRECAUTIONS

Both surface and ambient temperature shall be a minimum of 50° F. Temperature shall not drop below 50°F within a 24 hour period following application. Keep out of reach of children. Do not store unopened containers in freezing temperatures.

## PACKAGING AND AVAILABILITY

SealMaster Liquid Thermoplastic Traffic Marking Paint is available in 5-gallon pails and 55-gallon drums. Liquid Thermoplastic Traffic Marking Paint is supported by a national network of SealMaster manufacturing facilities along with a national network of qualified applicators.

## WARRANTY AND DISCLAIMER

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.

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