

# Product Data Sheet

No. 1201- 02/09

## SURVEY MARKING PAINT

AEROSOL MIR 1.20 VOC<66% - GROUND TRAFFIC MARKING (aerosol and bulk)

### PRODUCT NUMBERS:

201 Red	206 Black	212 Purple	227 Fl. Blue	288 H.D. Fl. Orange
202 Yellow	207 White	220 Fl. Red	229 Fl. Pink	
203 Blue	208 Hi Vis Yellow	222 Fl. Orange	230 Fl. Red-Orange	
204 Green	209 Light Blue	224 Fl. Green	281 H.D. Red	
205 Orange	210 Silver	226 Fl. Yellow	282 H.D. Yellow	

Product number plus letter designation is as follows:  
G = 2 one-gallon cans per case; F=1 five-gallon pail; D = 55-gallon drum

### I. GENERAL DESCRIPTION

**Features:** Aervoe Survey Marking Paint is the best marking paint of its kind. It is packaged in a can that is operated only in an upside down position. It provides exceptional quality in terms of initial color brightness, color retention, adhesion, durability, and color consistency. It is formulated with superior quality raw materials to meet the requirements of the most demanding professional. Although the optimum operating temperature range is 50°F to 90°F (10°C to 30°), the product contains a freeze point depressant which will allow it to function with a reduced delivery rate down to 15°F (-10°C).

**Benefits:** Colors meet standards set by OSHA and APWA/One Call Systems. It is not affected by moisture or water and it will not wash away **once dry**. It may be used with the cap on in Aervoe applicators #244/245. The spray-through cap eliminates accidental discharge. Each can is non-clogging and empties completely. High delivery (HD) tip and valve system offers expeditious product delivery, which saves time and provides better coverage than regular delivery products. Regular colors will last up to 6 months, and fluorescent colors will last 3 to 6 months depending on traffic and exposure.

**Uses:** Designed to adhere to most surfaces, including pavement, gravel, and soil. It is ideal for use in surveying, utility identification, and other long term marking applications. This product is not recommended for use on short cut grass such as golf course greens.

**Application:** For **aerosol** application, shake can well before use and for 1 to 2 minutes after agitator ball is heard. Remove tab from tamper-resistant cap. With proper alignment of the activator bar, this product may be used with the cap on in Aervoe applicators #244/245. Apply paint 3 to 4 inches from surface as a writing tool, and 5 to 8 inches in the applicator for a 3/4-inch line or continuous directional mark. Keep can in motion during use to prevent puddling. Agitate can periodically during application. Clear paint from valve and tip after each use by turning can in an upright position and spraying for 3 to 5 seconds. For best results, use at temperatures between 50°F and 90°F (10°C to 32°C). **Bulk** paint may be applied in a conventional air spray system or airless pressure sprayer. If thinning is required, use no more than 10 to 15% Aervoe #908 Thinner.

**Limitations:** Please refer to the Material Safety Data Sheets for specific information on material hazards, etc. This aerosol product is designed to spray at an angle not greater than 30° from vertical. Do not use on turf surfaces. Please check your local air quality standards before using any bulk paint.

#### Packaging:

Aerosol:	Cans (211 x 713)	17 oz. net wt.	(482 grams)	19.0 fl. oz.	(562 ml)
	Case - 12 cans/case	18 lbs.	(8.2 kg)	.55 CF	(.016 CM)
Liquid Bulk:	1 case of 2 gallons	22 lbs.	(17.7 kg)	.50 CF	(.014 CM)
	5-gallon pails	47 lbs.	(21.4 kg)	1.2 CF	(.034 CM)
	55-gallon drum	468 lbs.	(212.7 kg)	8.5 CF	(.24 CM)



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## II. CHARACTERISTICS AND PROPERTIES - Regular Colors (Average for all colors)

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### Specifications:

Aerosol complies with CARB MIR requirements. Colors formulated to meet standards set by OSHA and APWA/One Call systems

### Appearance:

	Aerosol	Bulk
Gloss at 60°	<5	<5
Class	Flat	Flat

### Coverage:

Theoretical—at 1 mil dry	370 linear ft./can	7,073 linear ft./gal
Practical—at 1/2 mil dry	740 linear ft./can	14,146 linear ft./gal

### Drying Schedule: (At 77°F [25°C], 50% Humidity at 1 mil, dry)

To touch	30 min.	30 min.
To handle	45 min.	45 min.
Full cure	8 hrs.	8 hrs.
To recoat	Not required.	Not required

### Performance and Chemical Properties:

Weight per gallon	7.20 lbs.	9.13 lbs.
Specific gravity	0.86	1.1
Viscosity	Not applicable	55 KU
Flammability: Label marking	Extremely flammable	Flammable
Flash point	< 0 °F (-18°C)	<73°F (23°C)
Operating temperature range	50° to 90°F (10° to 32°C)	50° to 90°F (10° to 32°C)
Percent solids by weight	21%	44%
Percent solids by volume	10%	28%
Percent pigment by volume	6%	11%
Volatile Organic Compound level	<66% (712 gm/l)	623 gm/l
MIR Limits	1.20	NA
Interior durability	Good	Good
Exterior durability	Good	Good
Temperature resistance	Not applicable	Not applicable
Color fastness	Good	Good
Adhesion	Good	Good
Mineral spirits resistance	Fair	Fair
Gasoline resistance	Fair	Fair
Motor oil resistance	Good	Good

### Base Materials:

Resin system	Alkyd	Alkyd
Solvents (top two)	Vm&P Naptha, Hexane	Xylene, Mineral Spirits
Propellant system	Hydrocarbon	Not applicable

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## III. SHIPPING, STORAGE AND HEALTH

IMDG number	1950	1263
D.O.T. container spec	2P	1A2, 3A2, 4G
D.O.T. shipping description	Consumer commodity	Paint related material
Warehouse storage level number	NFPA 30B Level 1	Flammable liquid class1B
Hazardous class (CFR-49)	ORM-D	Flammable liquid
Storage temperature	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)
Shelf life	12 to 24 months	12 to 60 months
HMIS ratings		
Health	2	2
Fire	4	3
Reactivity	1	1

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## IV. MISCELLANEOUS

The APWA/One Call color designation system is used to identify location and direction of underground cables and pipes for above-ground utility construction. OSHA color assignment is used for physical risk or hazard identification. Contains no Ozone Depleting Substances (O.D.S.). The aerosol products meet VOC requirements for the State of California.

Color	APWA/One Call	OSHA
Red	Electric	Danger, stop or location of fire protection equipment
Yellow	Gas, Oil	Caution and physical hazards
Blue	Water	Equipment being repaired. Caution against starting or moving
Green	Sewer	Location of safety equipment other than fire
Orange	Communication, CATV	Dangerous parts of machinery or energized equipment
Purple	Reclaimed water	Radiation hazard
Black/White	White: Proposed excavation	Black/White: Traffic and housekeeping

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## V. WARRANTY

The statements made herein, on labels, product bulletins or by any of our employees or agents concerning this material are given for information only. Any liability whatsoever of Aervoe Industries, Inc. to the user of the product, is limited to replacement of the product or purchase price refunded. No. 1201-02/09

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## II. CHARACTERISTICS AND PROPERTIES - Fluorescent Colors (Average for all colors)

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### Specifications:

Colors formulated to meet standards set by OSHA and APWA/One Call systems. Complies with CARB MIR & VOC Requirements

### Appearance:

	Aerosol	Bulk
Gloss at 60° .....	<5 .....	<5 .....
Class .....	Flat .....	Flat .....

### Coverage:

Theoretical—at 1 mil dry .....	370 linear ft./can .....	9,000 linear ft./gal .....
Practical—at 1/2 mil dry .....	740 linear ft./can .....	18,000 linear ft./gal .....

### Drying Schedule: (At 77°F [25°C], 50% Humidity at 1 mil, dry)

To touch .....	30 min. ....	30 min. ....
To handle .....	45 min. ....	45 min. ....
Full cure .....	8 hrs. ....	8 hrs. ....
To recoat .....	Not required. ....	Not required .....

### Performance and Chemical Properties:

Weight per gallon .....	7.20 lbs. ....	9.79lbs. ....
Specific gravity .....	0.89 .....	1.18 .....
Viscosity .....	Not applicable .....	65 KU .....
Flammability: Label marking .....	Extremely flammable .....	Flammable .....
Flash point .....	< 0°F (-18°C) .....	<50°F (10°C) .....
Operating temperature range .....	50° to 90°F (10° to 32°C) .....	50° to 90°F (10° to 32°C) .....
Percent solids by weight .....	21% .....	59% .....
Percent solids by volume .....	10% .....	35% .....
Percent pigment by volume .....	6% .....	23% .....
Volatile Organic Compound level .....	<66% (560 gm/l) .....	506 gm/l .....
MIR Limit .....	1.20 .....	NA .....
Interior durability .....	Good .....	Good .....
Exterior durability .....	Fair .....	Fair .....
Temperature resistance .....	Not applicable .....	Not applicable .....
Color fastness .....	Poor .....	Poor .....
Adhesion .....	Good .....	Very Good .....
Mineral spirits resistance .....	Poor .....	Good .....
Gasoline resistance .....	Poor .....	Poor .....
Motor oil resistance .....	Very Good .....	Very Good .....

### Base Materials:

Resin system .....	Alkyd .....	Alkyd .....
Solvents (top two) .....	VM&P Naptha, Hexane .....	VM&P Naptha .....
Propellant system .....	Hydrocarbon .....	Not applicable .....

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## III. SHIPPING, STORAGE AND HEALTH

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IMDG number .....	1950 .....	1263 .....
D.O.T. container spec .....	2P .....	1A1, 1A2, 1H1, 1H2 .....
D.O.T. shipping description .....	Consumer commodity .....	Paint related material .....
Warehouse storage level number .....	NFPA 30B Level 1 .....	Flammable liquid class 1-B .....
Hazardous class (CFR-49) .....	ORM-D .....	Flammable liquid .....
Storage temperature .....	32° to 120°F (0° to 49°C) .....	32° to 120°F (0° to 49°C) .....
Shelf life .....	12 to 24 months .....	24 to 60 months .....
HMIS ratings		
Health .....	2 .....	2 .....
Fire .....	4 .....	3 .....
Reactivity .....	1 .....	1 .....

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## IV. MISCELLANEOUS

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The APWA/One Call color designation system is used to identify location and direction of underground cables and pipes for above-ground utility construction. OSHA color assignment is used for physical risk or hazard identification. Contains no Ozone Depleting Substances (O.D.S.). The aerosol products meet VOC requirements for the State of California.

Color .....	APWA/One Call .....	OSHA .....
Red .....	Electric .....	Danger, stop or location of fire protection equipment .....
Yellow .....	Gas, Oil .....	Caution and physical hazards .....
Blue .....	Water .....	Equipment being repaired. Caution against starting or moving .....
Green .....	Sewer .....	Location of safety equipment other than fire .....
Orange .....	Communication, CATV .....	Dangerous parts of machinery or energized equipment .....
Purple .....	Reclaimed water .....	Radiation hazard .....
Black/White .....	White: Proposed excavation .....	Black/White: Traffic and housekeeping .....

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## V. WARRANTY

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