

# Product Data Sheet

No. 1201 - 08/11

## SURVEY MARKING PAINT

Aerosol MIR 1.20 VOC <66% - Ground Traffic Marking (aerosol and bulk)

### PRODUCT NUMBERS:

201 RED	205 ORANGE	209 LIGHT BLUE	222 FL. ORANGE	229 FL. PINK
202 YELLOW	206 BLACK	210 SILVER	224 FL. GREEN	230 FL. RED-ORANGE
203 BLUE	207 WHITE	212 PURPLE	226 FL. YELLOW	281 H.D. RED
204 GREEN	208 HI VIS YELLOW	220 FL. RED	227 FL. BLUE	282 H.D. YELLOW
				288 H.D. FL. ORANGE

Product number plus letter designation is as follows:

G = 2 one-gallon cans per case; F = 1 five-gallon pail; D = 50-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.

**Limitations:** Please refer to the Material Safety Data Sheet 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)	0.55 CF (0.016 CM)
Liquid Bulk:	1 case of 2 gallons	22 lbs. (17.7 kg)	0.50 CF (0.014 CM)
	5-gallon pails	47 lbs. (21.4 kg)	1.2 CF (0.034 CM)
	50-gallon drum	468 lbs. (212.7 kg)	8.5 CF (.24 CM)

## II. CHARACTERISTICS & PROPERTIES (Average for all Regular Colors)

### 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% .....	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 Naphtha, Hexane .....	VM&P Naphtha, N-Butyl Acetate .....
Propellant system .....	Hydrocarbon .....	Not applicable .....

## III. SHIPPING, STORAGE AND HEALTH

	Aerosol	Bulk
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 class 1B .....
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 .....

## 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 .....

## II. CHARACTERISTICS & PROPERTIES (Average for all Regular Colors)

### 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% .....	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 .....

## III. SHIPPING, STORAGE AND HEALTH

	Aerosol	Bulk
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 .....

## 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.