

Product Data Sheet

No. **1201** - 01/17

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 | 230 FL. RED-ORANGE |
| 202 YELLOW | 206 BLACK | 210 SILVER* | 224 FL. GREEN | 280 CONCRETE GRAY |
| 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 |
| | | | 229 FL. PINK | 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 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) | All colors except #210 - 17 oz. net wt. (482 g) | 19.0 fl. oz. (562 ml) |
| | | #210 Silver - 15 oz. net wt. (425g) | 19.25 fl. oz. (569 ml) |
| Liquid Bulk: | Case - 12 cans/case | 18 lbs. (8.2 kg) | 0.55 CF (0.016 CM) |
| | 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 | Silver Aerosol | Bulk |
|--------------|---------|----------------|------|
| Gloss at 60° | <5 | >100 | <5 |
| Class | Flat | Metalic | Flat |

Coverage:

| | | | |
|--------------------------|--------------------|--------------------|-----------------------|
| Theoretical—at 1 mil dry | 370 linear ft./can | 300 linear ft./can | 7,073 linear ft./gal |
| Practical—at 1/2 mil dry | 740 linear ft./can | 660 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. | 15 min. | 30 min. |
| To handle | 45 min. | 30 min. | 45 min. |
| Full cure | 8 hrs. | 24 hrs. | 8 hrs. |
| To recoat | Not required. | Not required | Not required |

Performance and Chemical Properties:

| | | | |
|---------------------------------|---------------------------|---------------------------|---------------------------|
| Weight per gallon | 7.20 lbs. | 6.23 lbs. | 9.06 lbs. |
| Specific gravity | 0.86 | 0.75 | 1.09 |
| Viscosity | Not applicable | Not applicable | 65 KU |
| Flammability: Label marking | Extremely flammable | Extremely flammable | Flammable |
| Flash point | < 0 °F (-18°C) | < 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) | 50° to 90°F (10° to 32°C) |
| Percent solids by weight | 21% | 26% | 35% |
| Percent solids by volume | 10% | 9% | 19% |
| Percent pigment by volume | 6% | 2% | 4% |
| Volatile Organic Compound level | <66% | 48% | 450 gm/l |
| MIR Limits | 1.20 | 1.20 | NA |
| Interior durability | Good | Good | Good |
| Exterior durability | Good | Good | Good |
| Temperature resistance | Not applicable | Not applicable | Not applicable |
| Color fastness | Good | Good | Good |
| Adhesion | Good | Good | Good |
| Mineral spirits resistance | Fair | Fair | Fair |
| Gasoline resistance | Fair | Fair | Fair |
| Motor oil resistance | Good | Good | Good |

Base Materials:

| | | | |
|--------------------|----------------------|------------------------|----------------------|
| Resin system | Alkyd | Acrylic | Alkyd |
| Solvents (top two) | VM&P Naphtha, Hexane | Acetone & VM&P Naphtha | VM&P Naphtha, Hexane |
| Propellant system | Hydrocarbon | Hydrocarbon | Not applicable |

III. SHIPPING, STORAGE AND HEALTH

| | Aerosol | Bulk |
|--------------------------------|----------------------------|---|
| UN number | UN1950 | UN1263 |
| Proper Shipping Description | Aerosols, Limited Quantity | Paint |
| Hazard Class | 2.1 | 3 |
| Packing Group | N/A | II |
| Limited Quantity | Yes | Container size determines applicability |
| Warehouse storage level number | NFPA 30B Level 1 | Flammable liquid class 1-B |
| Storage temperature | 32° to 120°F (0° to 49°C) | 32° to 120°F (0° to 49°C) |
| Shelf life | 1 to 2 years | 2 to 5 years |
| 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 Fluorescent 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. | 9.06 lbs. |
| Specific gravity | 0.89..... | 1.09 |
| 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%..... | 34.6% (35%) |
| Percent solids by volume | 10%..... | 19% |
| Percent pigment by volume..... | 6%..... | 4% |
| Volatile Organic Compound level..... | <66% | 450 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 Naphtha, Hexane..... | VM&P Naphtha, Hexane |
| Propellant system..... | Hydrocarbon | Not applicable |

III. SHIPPING, STORAGE AND HEALTH

| | Aerosol | Bulk |
|--------------------------------------|---------------------------------|---|
| UN number..... | UN1950..... | UN1263 |
| Proper Shipping Description | Aerosols, Limited Quantity..... | Paint |
| Hazard Class..... | 2.1..... | 3 |
| Packing Group | N/A..... | II |
| Limited Quantity | Yes..... | Container size determines applicability |
| Warehouse storage level number | NFPA 30B Level 1..... | Flammable liquid class 1-B |
| Storage temperature | 32° to 120°F (0° to 49°C)..... | 32° to 120°F (0° to 49°C) |
| Shelf life | 1 to 2 years..... | 2 to 5 years |
| HMIS ratings | | |
| Health..... | 2 | 2 |
| Fire | 4 | 3 |
| Reactivity..... | 1 | 1 |

V. WARRANTY

1-year warranty to the original registered owner on all products from date of purchase. User returns, exchanges and defective refunds must be made with the original place of purchase. Because Aervoe cannot control Buyer's handling or use of product, Aervoe makes no warranty expressed or implied when not used or stored in accordance with directions. Aervoe shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement or repair of product or credit of purchase.