

# Product Data Sheet

## MRO COLD GALVANIZE COATING

AEROSOL VOC < 80% / CARB MIR ≤ 1.25

**PRODUCT NUMBER:**

187 - 12 - oz. net. wt. aerosol

### I. GENERAL DESCRIPTION

**Description:** Aervoe's MRO Cold Galvanize Coating is a cost effective zinc spray coating that imparts temporary zinc protection in the welding process from fabrication, to maintenance, and repair. One coat will furnish short-term corrosion protection in pre-fabrication and the weld-through process including cut, drill, and spot-weld activity. Provides a post process metallic primer plus protection for incomplete work. Multiple coats (3 to 4) will give you a dry-film thickness of about 1-mil of zinc for extended protection. MRO Cold Galvanize Coating uses metallic zinc dust that is 97% pure and the dry film contains 93% zinc.

**Benefits:** The coating dries to a tough, hard coat and acts as a metallic primer for iron, steel, and their welds to provide interim protection during the work process. Even at one coat, if the surface is scratched or broken; an electrochemical reaction (sacrificial anodization) causes the zinc to sacrifice itself for the base metal's protection though at a faster rate than a coating of 1-mil. Even if moisture is present, the zinc coating will corrode, but it will continue to protect the metal to which it is applied. It protects surfaces by resisting salt, moisture, and heat. Can be the final protective coating when applied at 1 to 2 mils dry-film thickness or it can be top coated with Aervoe's 188 MRO Bright Galvanize Coating. If a color top coat is preferred, use DTM water-based Rust Proofing paint. MRO Cold Galvanize Coating is an economical choice for preventive maintenance on galvanized parts and in welding applications. Meets multiple performance requirements of ASTM and MIL specifications (see "Specifications"). Acceptable as a coating in federally inspected meat and poultry plants for application to structural surfaces or surfaces where there is a possibility of incidental food contact.

**Application:** Use on weld points, damaged galvanized surfaces, structural steel, automobiles, guard rails, bridges, TV and radio towers, storage tanks, signs and sign posts, equipment (farming, mining & construction, power plant,

railroad, offshore, etc), gutters, pipelines, transformers, and corrugated metal buildings.

**Directions:** Apply directly to metal or galvanized surfaces that are free of loose rust, heavy mill scale, old paint, grease, moisture, and other contaminants. Clean severely rusted areas with a wire brush to remove loose scale. For best results, use at temperatures between 60° and 80°F (16° to 27°C). Application of heat will accelerate dry time. Notice: Zinc is a dense material which will settle on the bottom of the container. This product is formulated to resist hard settling (where zinc is dry, clumped together and will not remix). However, soft settling (the zinc sinks to the bottom but remains wet, no clumping, & will remix) is natural for this product and can occur from road vibration during transportation or while sitting on the shelf. Aerosol application: align spray head with black mark on valve rim to insure complete evacuation of contents. Vigorously shake can for 2 minutes after hearing rattle of agitator ball (ball should release in 10 to 30 seconds), and intermittently (1 to 2 seconds) during use. Apply from a distance of 10 to 12 inches. Spray in light, sweeping strokes to avoid run and sags. Two light coats are better than one heavy coat. Whenever you must set the aerosol can aside for more than 2 minutes or are ready to store the can, then invert the can and spray for two seconds to clear dip tube, valve and tip to prevent zinc from drying in those areas and clogging the can.

**Limitations:** Please refer to the Safety Data Sheet for specific information on material hazards, etc. Do not apply at temperatures below 40°F (4°C), or if rain is imminent within 6 hours of application. Galvanizing products have a limited shelf life; use them within 12 months from the date of manufacture (guarantee is for 6 months from date of purchase and 12 months from date of manufacture).

**Packaging:**

Aerosol:

Cans (211x604):

Case (12/case):

12 oz. net wt. (340 g)

13 lbs. (5.9 kg)

13.6 fl. oz. (401 ml)

0.47 CF (0.013 CM)

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## II. CHARACTERISTICS & PROPERTIES (187 MRO Cold Galvanize Coating)

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**Specifications:** Meets performance requirements of MIL-P-21035B (par. 3.3.1, 3.3.2, & 3.3.3), MIL-P-46105(MR) (par. 3.2, 4.4.5), ASTM A-780-01 (par. 4.1.2, 4.1.3, 4.2.2) and is USDA Accepted Category 21. Aerosol meets CARB MIR requirements.

**Appearance:**

	<b>Aerosol</b>
Gloss at 60° .....	< 5
Class .....	Metallic

**Coverage:**

Theoretical (at 1 mil dry) .....	9 sq. ft.
Practical (at 1/2 mil dry) .....	19 sq. ft.

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

To touch.....	15 min.
To handle.....	30 min.
To recoat.....	Before 1 hr or after 24 hrs
Full cure .....	24 hrs

**Performance and Chemical Properties:**

Weight per gallon .....	8.6 lbs/gal
Specific gravity .....	1.03
Flammability: Label marking .....	Extremely flammable
Flash point.....	< 0°F (-18°C)
Operating temperature range.....	50° to 90°F (10° to 32°C)
Percent solids by weight .....	30%
Percent solids by volume .....	5%
Percent pigment by volume.....	3%
Dry Film Weight: Zinc Dust: .....	93%
Resin .....	7%
VOC (Metallic Coatings).....	< 80%
CARB MIR (Metallic Coatings).....	≤1.25
Interior durability.....	Excellent
Exterior durability .....	Excellent
Temperature resistance.....	150°F (65°C)
Color fastness .....	Excellent
Adhesion (ASTM D3359) .....	Fair
Salt spray corrosion (ASTM B117).....	2000 hrs (dry film thickness of 2 mils)
Mineral Spirits resistance .....	Fair
Gasoline resistance.....	Poor
Motor Oil resistance .....	Good
Pencil hardness (ASTM D3363).....	< 2B
Food contact rating .....	USDA accepted Category 21

**Base Materials:**

Resin system.....	Acrylic
Solvents (top two) .....	VM&P Naphtha, MEK
Propellant .....	Hydrocarbon

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## III. SHIPPING, STORAGE AND HEALTH

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UN number .....	UN1950
Proper Shipping Description .....	Aerosols
Hazard Class.....	2.1
Packing Group .....	N/A
Limited Quantity .....	Yes
Warehouse storage level number .....	NFPA 30B Level 2
Storage temperature .....	32° to 120°F (0° to 49°C)
Shelf life .....	1 year
HMIS ratings	
Health .....	2
Fire.....	4
Reactivity .....	1

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## IV. MISCELLANEOUS

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Contains no Ozone Depleting Substances (O.D.S.)

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## V. WARRANTY

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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.