Product Data Sheet

No. 17007 - 03/21

COLD GALVANIZE COATING 93% ZINC RICH

AEROSOL CARB MIR ≤ 1.25, BULK < 500 G/L

PRODUCT NUMBERS:
7007 - 13 OZ. NET WT. AEROSOL

Product number 7007 plus letter designation is as follows:
P = 1/2 pint; Q = 4 one-quart cans; G = 1 one-gallon can (not sold in fives or drums due to weight)

I. GENERAL DESCRIPTION

Description: Crown's premium Cold Galvanize Coating 93% Zinc Rich provides corrosion protection to ferrous metal surfaces; first as a long-lived coating of practically pure Zinc comparable to that obtained by galvanization and second, through sacrificial anodization. Both aerosol and bulk use metallic zinc dust that is 97% pure, which leaves 93% zinc in the dry film. The zinc fuses to metal substrates for protection equal to or better than hot-dipped galvanizing. This protection becomes effective when the surface is scratched, broken, or corrupted. With the presence of moisture the Zinc coating will corrode while continuing to protect the metal it covers.

Benefits: Meets multiple performance requirements of ASTM, MIL, and DOD 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. It acts as both a metallic primer and single coat for iron, steel, and their welds. It may be the final protective coating or it may be top coated with Aervoe's DTM water-based Rust Proofing paint.

Application: Use on damaged galvanized surfaces, structural steel, automobiles, guard rails, bridges, TV and radio towers, welded joints, storage tanks, signs and sign posts, equipment (farming, mining & construction, power plant, railroad, offshore, etc.), gutters, pipelines, transformers, and corrugated metal buildings. Ideal for industrial type applications in the aviation, marine, petroleum and manufacturing fields.

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). Drying may be accelerated by applying heat. **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. The preferred application method is to apply a coating of 3-4 mils, wet thickness in one application. One coat will be satisfactory. A second coat may be applied to maximize the protection (refer to the recoat schedule). 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. **Bulk application:** mix contents thoroughly (paint shaker or electric drill with metal paint stirrer) and scrape bottom and sides. Contents may be applied full-strength without thinning. If using in conventional spray equipment, use a minimum pressure of 40 psi. If thinning, use acetone and do not add thinner directly to the contents; pour contents into separate container and thin as necessary. Use immediately; do not store thinned material. Invert stored bulk containers occasionally to keep solids in suspension.

Limitations: Please refer to the Safety Data Sheets 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). The bulk product has special conditions related to storage. In bulk form, the user must be aware of possible gas formation which could distort the container and affect storage stability. Containers should be stored in a cool dry place.

Packaging:

Aerosol:	Cans (16 oz.)	13 net wt. (369 g)	8.6 fl. oz. (255 ml)
	Case (12/case):	14 lbs. (6.4 kg)	0.47 CF (0.013 CM)
Bulk:	1 case of 4 quarts (mt. rd.)	26 lbs. (11.8 kg)	0.29 CF (0.008 CM)
	1 case of 1 gallon (mt. rd.)	25 lbs. (11.3 kg)	0.31 CF (0.009 CM)

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II. CHARACTERISTICS & PROPERTIES

Specifications: Meets specification MIL-P-21035B (par. 3.3.1, 3.3.2, & 3.3.3) and performance requirements of MIL-P-46105(MR) (par. 3.2, 3.3.1, 3.5.8. 4.4.5), DOD-P-21035A (par. 3.1, 3.2, 3.5.3, 3.5.6, 4.4.3, 6.1, & 6.5), and MIL-P26915 as a lead-free, zinc dust primer for steel surfaces. Meets ASTM B-117 salt spray (2000 hrs) and ASTM A 780. Meets SSPC 20 paint specifications. Bulk product meets National Architectural Coatings VOC emissions standards of 500 g/L and aerosol meets CARB requirements.

Appearance:		
Gloss at 60°	< 5	
Class	Metallic	
Coverage:	**Aerosol**	**Bulk**
Theoretical (at 1 mil dry)	24 sq. ft./can	870 sq. ft./gallon
Practical (at 1/2 mil dry)	48 sq. ft./can	1740 sq. ft./gallon
Drying Schedule (at 77° F [25° C], 50% Humidity at 1 mil dry):		
To touch	15 min	15 to 20 min.
To handle	30 min	1 hr.
To recoat	Before 1 hr. or after 24 hrs.	Before 1 hr. or after 48 hrs.
Full cure	24 hrs.	48 hrs.
Performance and Chemical Properties:		
Weight per gallon	11.4 lbs.	23 lbs.
Specific gravity	1.36	2.76
Viscosity		90 to 100 KU
Flammability: Label marking	Extremely flammable	Flammable
Flash point	< 0°F (-18°C)	101°F (38°C) T.C.C.
Operating temperature range	60° to 80°F (16° to 27°C)	60° to 80°F (16° to 27°C)
Percent solids by weight	60%	84%
Percent solids by volume	20%	45%
Percent pigment by volume	12%	30%
Dry Film Weight	93% zinc	93% zinc
	7% resin	7% resin
CARB VOC (zinc rich primers)	N/A	< 500 g/L
CARB MIR (Metallic Coating)	< 1.25	
Interior durability	Excellent	Excellent
Exterior durability	Excellent	Excellent
Temperature resistance	150° F (65° C)	150° F (65° C)
Color fastness	Excellent	Excellent
Adhesion (ASTM D3359)	Fair	Very Good
Salt spray corrosion (ASTM B117)	2000 hrs.	2000 hrs.
Mineral Spirits resistance	Fair	Fair
Gasoline resistance	Poor	Good
Motor Oil resistance	Good	Good
Pencil hardness (ASTM D3363)	< 2B	< 2B
Base Materials:		
Resin system	Acrylic	Epoxy Ester
Solvents (top two)	VM&P Naphtha, MEK	Mineral Spirits, n-Butyl Acetate
Propellant	Hydrocarbon	

III. SHIPPING, STORAGE AND HEALTH

	Aerosol	**Bulk**
UN number	UN1950	UN1263
Proper Shipping Description	Aerosols	Paint
Hazard Class	2.1	3
Packing Group	N/A	III
Limited Quantity	Yes	Container size determines applicability
Warehouse storage level number	NFPA 30B Level 1	Flammable liquid class 1-C
Storage temperature	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)
Shelf life	6-12 months	6-12 months
HMIS ratings		
Health	2	2
Fire	4	3
Reactivity	1	1

IV. MISCELLANEOUS

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

V. WARRANTY

1-year performance warranty on all products from date of purchase. Report to home office or local Aervoe representative for examination. Because Seller cannot control Buyer's handling or use of product, Seller makes no warranty expressed or implied when not used or stored in accordance with directions. Seller shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement of product or credit of purchase.