

Product Data Sheet

No. 17007 - 3/07

CROWN - COLD GALVANIZING COMPOUND

Aerosol and Bulk Liquid Carb MIR < 1.90 Metallic / VOC Bulk < 500 g/L

PRODUCT NUMBER: 7006 - 1/2 Pint bulk liquid

7007 - 13-oz. net wt. aerosol

Aerosol product number plus letter designations as follows:

Q = 6 one-quart cans; G = 1 one-gallon can (not sold in fives or drums due to weight)

I. GENERAL DESCRIPTION

Description: Crown Cold Galvanize Compound 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. Crown Cold Galvanize Compound exceeds the ASTM A780 specification requirements containing 93% zinc in the dry film. 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) Authorized by USDA for use in federally inspected meat and poultry plants as a coating for application to structural surfaces or surfaces where there is a possibility of incidental food contact. Before applying the coating to equipment that will subsequently be installed in an official plant, you must obtain clearance from the Equipment Standards and Review Branch, Science and Technology Branch, Washington DC 20250. Aerosol product meets MIR requirements of California Air Resources Board. Bulk product meets VOC requirements of 500 g/L set forth in the National Volatile Organic Compound Emissions Standards for Architectural Coatings.

Application: Use on welded joints, guard rails, bridges, metal chain fences, pipes, TV towers, refinery piping, heavy equipment, corrugated metal buildings, etc. Crown Cold Galvanizing Compound is ideal for industrial type applications in the aviation, marine, petroleum and manufacturing fields.

Directions: Remove dirt, dust, oil, grease, old paint, heavy mill scale, loose rust particles and any other contaminants that could prevent proper adhesion. For best results, use at temperatures between 64° and 86°F (18° to 30°C). **Aerosol** application: align spray head with black mark on valve rim to insure complete evacuation of contents. Shake can for 1 minute after rattle of agitator ball is heard, and intermittently during use. Apply from a distance of 10 to 12 inches from surface. This product is for use in a well-ventilated area. Spray light coats with smooth sweeping motion to avoid runs and sags. Coat sets to touch in 10-15 minutes. One coat will be satisfactory. A second coat may be applied within 1 hour or after 24 hours, to maximize the protection. Prepare for storage by turning can upside down and spraying for two seconds to clear material from inside dip tube and nozzle. The preferential treatment is to apply a coating of 3-4 mils, wet thickness in one application. For **bulk** application, stir contents thoroughly. Product may be applied full-strength without thinning or thinned with mineral spirits or vm&p naphtha for spraying. Do not add thinner directly to contents. Pour contents into separate container and thin as desired. Check local VOC regulations / air quality standards prior to thinning or using any bulk products. Coating sets to touch in 15-20 minutes. Invert stored cans occasionally to keep solids in suspension. Drying may be accelerated by applying heat or baking oven for aerosol and bulk products.

Limitations: Please refer to the Material Safety Data Sheets for specific information on material hazards, etc.

Packaging:

Aerosol:	Cans (211 x 604)	13 oz. net wt.	(369 grams)	8.6 fl. oz.	(255 ml)
	Case - 12 cans/case	10.5 lbs.	(4.77 kg)	.47 CF	(.013 CM)
Liquid Bulk:	1 case of 6 1/2 pints (mt. rd.)	8.5 lbs.	(3.88 kg)	.33 CF	(.009 CM)
	1 case of 6 quarts (mt. rd.)	34 lbs.	(15.52 kg)	.88 CF	(.024 CM)
	1 gallon (mt. rd.)	23 lbs.	(10.35 kg)	.31 CF	(.009 CM)



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II. CHARACTERISTICS AND PROPERTIES

Specifications: Meets specification MIL-P-21035 (par. 3.3.1, 3.3.2, & 3.3.3) and performance requirements of MIL-P-46105 (par. 3.2, 3.3.1, 3.5.8, 4.4.5) and DOD-P-21035A (par. 3.1, 3.2, 3.5.3, 3.5.6, 4.4.3, 6.1, & 6.5). Meets ASTM B-117 salt spray (2000 hrs) and ASTM A 780. USDA Accepted Category 21. Bulk meets VOC requirements of 500 g/L for National VOC Emissions Standards for Architectural Coatings.

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.	15-20 min.
To handle	30 min.	1 hr.
Full cure	24 hrs.	48 hrs.
To recoat	Within 1 hr. or after 24 hrs.	Within 1 hr. or after 24 hrs.

Performance and Chemical Properties:

	Aerosol	Bulk
Weight per gallon	12 lbs.	22.8 lbs.
Specific gravity	1.44	2.73
Viscosity	Not applicable	90-100 KU
Flammability: Label marking	Extremely Flammable	Combustible
Flash point	< 0°F (-18°C)	101°F T.C.C.
Operating temperature range	50° to 90°F (10° to 32°C)	50° to 90°F (10° to 32°C)
Percent solids by weight	60%	85%
Percent solids by volume	20%	45%
Percent pigment by volume	12%	30%
Volatile Organic Compound level	NA	430 g/L
CARB MIR (Metallic)	<1.90	NA
Interior durability	Excellent	Excellent
Exterior durability	Excellent	Excellent
Temperature resistance (Dried Film)	150°F (65°C)	150°F (65°C)
Color fastness	Excellent	Excellent
Adhesion	Fair	Very Good
Salt spray corrosion	2000 hrs.	2000 hrs.
Mineral spirits resistance	Fair	Fair
Gasoline resistance	Poor	Poor
Motor oil resistance	Good	Good
Pencil hardness	<2B	2B
Food contact rating	USDA accepted, see "Specifications"	USDA accepted, see "Specifications"

Base Materials:

Resin system	Acrylic	Epoxy Ester
Solvents (top two)	MEK, VM & P Naptha	Petroleum Distillate
Propellant system	Hydrocarbon	Not applicable

III. SHIPPING, STORAGE AND HEALTH

	Aerosol	Bulk
IMDG number	1950	1263
D.O.T. container spec	2P	1A2, 4G, 3A1, 3A2,
D.O.T. shipping description	Consumer commodity	Paint related material
Warehouse storage level number	NFPA 30B Level 2	Flammable Liquid I-C
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	1 year	1 year
HMIS ratings		
Health	2	2
Fire	4	1
Reactivity	1	1

IV. MISCELLANEOUS

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

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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 Aerove Industries to the user of the product, is limited to replacement of the product or purchase price refunded.