

Product Data Sheet

No. 1141 - 3/07

ZINC RICH GALVANIZE - Aerosol and Bulk Liquid

AEROSOL VOC <80%, CARB MIR <1.90; Bulk <500g/l

PRODUCT NUMBER: 141 - 13-oz. net wt. aerosol

Product number plus letter designation is as follows:

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

I. GENERAL DESCRIPTION

Description: Zinc Rich Galvanize is an exceptionally smooth-flowing, high-solids compound that provides a fast-drying coating that protects ferrous metals in highly corrosive environments. Stops rust and corrosion on any steel or iron surface. The zinc in both bulk and aerosol is 97% pure zinc metallic flake, which leaves 93% zinc in the dry film. The zinc fuses to metal substrates for protection equal to or better than hot-dipped galvanizing.

Benefits: The coating dries to a tough, permanent hard 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. 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 subjected to the harshest corrosive environments, resisting salt, moisture and heat. It acts as both a metallic primer and single coat for iron, steel, and their welds. 141 Zinc Rich can be the final protective coating or it may be top coated with Aervoe's DTM water-based Rust Proofing paint. An excellent choice for preventive maintenance to reduce or eliminate equipment downtime for repair due to corrosion damage and withstands up to 2,000 hours salt spray exposure. Meets military specification requirements (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. Zinc Rich Galvanize offers the convenience of on-the-job application when hot-dipping is not available.

Application: Use on structural steel, automobiles, guard rails, bridges, television towers, damaged galvanized surfaces, heat ducts, welded joints,

storage tanks, signs and sign posts, farming equipment, mining equipment, gutters, pipelines, offshore equipment, transformers, power plant equipment, railroad equipment 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 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 hearing rattle of agitator ball, and intermittently during use. Apply from a distance of 10 to 12 inches. Spray in light, sweeping strokes to avoid run and sags. Drying may be accelerated by applying heat. Prepare for storage by turning can upside down and spraying for two seconds to clear material from inside dip tube and nozzle. **Bulk** application: stir contents thoroughly. Contents may be applied full-strength without thinning. If using in conventional spray equipment, use a minimum pressure of 40 psi. If thinning, do not add thinner directly to the contents; pour contents into separate container and thin as desired with xylene or acetone (or a mixture of both). Check local VOC regulations / air quality standards prior to thinning.

Limitations: Please refer to the Material Safety Data Sheets for specific information on material hazards, etc. Aerosols have a limited shelf life of 6 months from the date of purchase. Do not apply at temperatures below 40°F (4°C), or if rain is imminent. The bulk product is available with 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.

Packaging:

Aerosol:	Cans (211 x 604)	13 oz. net wt.	(369 grams)	8.60 fl. oz.	(255 ml)
	Case - 12 cans/case	14 lbs.	(6.4 kg)	0.47 CF	(.013 CM)
Liquid Bulk:	1 case of 6 quarts (mt. rd.)	32 lbs.	(14.5 kg)	0.88 CF	(.024 CM)
	1 one-gallon can (mt. rd.)	22 lbs.	(10.0 kg)	1.00 CF	(.028 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. Bulk product meets National VOC requirement of 500g/l and Aerosol meets CARB requirements.

Appearance:

Gloss at 60° <5
 Class Metallic

Coverage:

	Aerosol	Bulk
Theoretical—at 1 mil dry	21 sq. ft./can	500 sq. ft./gal
Practical—at 1/2 mil dry	42 sq. ft./can	1000 sq. ft./gal

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

	Aerosol	Bulk
To touch	15 min.	20 min.
To handle	30 min.	1 hr.
Full cure	24 hrs.	72 hrs.
To recoat	Before 1 hr. or after 24 hrs.	Before 2 hrs. or after 72 hrs.

Performance and Chemical Properties:

	Aerosol	Bulk
Weight per gallon	11.0	18.9
Specific gravity	1.32	2.28
Viscosity	Not applicable	75 KU
Flammability: Label marking	Extremely flammable	Flammable
Flash point	<0°F (-18°C)	50°F (16°C)
Operating temperature range	50° to 90°F (10° to 32°C)	60° to 80°F (16° to 27°C)
Percent solids by weight	56%	75%
Percent solids by volume	18%	31%
Percent pigment by volume	10%	26%
Volatile Organic Compound level	N/A	495 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	Excellent
Salt spray corrosion	2,000 hrs.	2,000 hrs.
Mineral spirits resistance	Fair	Fair
Gasoline resistance	Poor	Good
Motor oil resistance	Good	Good
Pencil hardness	<2B	<2B

Base Materials:

Resin system	Acrylic	Epoxy Ester
Solvents (top two)	VM&P Naphtha, MEK	Xylene, Acetone
Propellant system	Hydrocarbon	Not applicable

III. SHIPPING, STORAGE AND HEALTH

	Aerosol	Bulk
IMDG number	UN 1950	UN1263
D.O.T. container spec	2P	1A1, 1A2
D.O.T. shipping description	Consumer Commodity	Paint related material
Warehouse storage level number	NFPA 30B Level 2	I-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 months	12 months
HMIS ratings		
Health	2	2
Fire	4	3
Reactivity	1	0

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