CRC Industries, Inc.
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Technical Data Sheet

Zinc-It®
Instant Cold Galvanize™

I. Product Description

Zinc-It® is a quick drying, sacrificial coating that protects ferrous metals from oxidizing. The high purity, zinc rich formula creates a galvanic barrier between the environment and the base metal to prevent the formation or spread of rust and corrosion. **Zinc-It®** electrochemically bonds to metal surfaces, providing the protection of hot-dipped galvanize, and protects ferrous metals substantially longer than zinc paints. After curing, the **Instant Cold Galvanize™** is highly resistant to scratching, denting, abrasion, corrosive environments, salt air, heat, moisture and road salts.

II. Applications

Recommended for use on threads, exposed edges, fasteners, conduit, strapping, welds, fencing, railings, grates, electrical poles, breaker panel housings, rain spouts, signs, doors, trailers, waste containers, catwalks, and guard rails. Ideally suited for a variety of environments including marine, utility, refinery, water treatment, chemical processing, pulp & paper, steel manufacturing and general maintenance and repair.

III. Features & Benefits

- **>92% Pure Zinc.** Leaves behind a heavy concentration of zinc instead of fillers to provide maximum protection against corrosion.
- **Quick Drying.** Dries to touch in 15 to 30 minutes. Allows treated parts to be handled quickly.
- **M.S.D.[L.]™-Material Safety Data Label**. Provides instant access to current safety information should an accident or OSHA inspection occur. Helps comply with **OSHA Hazard Communications Standard 29 CFR 1910.1200**.

IV. Physical Properties without propellant

AEROSOL:

Flash Point	<20ºF TCC
Odor	Solvent
Appearance	Grey, viscous liquid
Vapor Density	>air
VOC Content (Fed)	3.6 lbs/gal
Shelf Life	2 years
Binder	Acrylic
Temperature Range	Continuous - 130° F Intermittent - 150° F
Coverage (dry)	28 to 32 sq. ft. @ 3 mil
Sara Title III, Sect. 313 Chemicals	Yes
Prop 65	Yes
Propellant	Hydrocarbon

BULK:

Flash Point	45ºF TCC
Odor	Solvent
Appearance	Grey, viscous liquid
Vapor Density	>air
VOC Content (Fed)	4.13 lbs./gal
Shelf Life	2 years
Binder	Epoxy Ester
Specific Gravity	2.47
Temperature Range	Continuous - 250° F Intermittent - 300° F
Coverage (dry)	671 sq. ft. @ 1 mil
Weight/Gallon	20.6 ± .2 lbs.
Sara Title III, Sect. 313 Chemicals	Yes
Prop 65	Yes

V. Specifications and Approvals

AEROSOL:

MIL-P-46105 (MR) Paragraph 3.2,3.31, 3.5.8, 4.45i
MIL-P-21035 (ships) Paragraph 3.3.1, 3.3.2, 3.3.3
DOD-P-21035A (Navy) Paragraph 3.1, 3.2, 3.5.3, 3.5.6, 4.4.3, 6.1,6.5, 353; and MIL-T26433
ASTM-780-01 Section 4.2.2

BULK:

Meets Performance requirements of - DOD-P-21035A
Meets Performance requirements of - MIL-T-26915
Meets Performance requirements of - MIL-P-46105
NSN-8030-01-237-6602
ASTM-A-780-93

VI. Performance Characteristics

Type of Film	Dry, grey, matte finish
Dry Film Thickness	1.5-3 mils
Coverage (bulk)	671 sq ft. per gal @ 1 mil
Corrosion Resistance	500 hrs. ASTM 2247 (humidity) 1000 hrs. ASTM-B117 (Salt Fog)
Drying Time	30 minutes for handle 8 hours full dry Within 8 hours recoat

VII. Directions

Surface Preparation

New Steel - Surface must be dry and free of contamination. Remove all weld spatter and grind all rough welds and sharp edges to a smooth contour. For severe exposure (immersion, chemical, etc.) near-white blast clean per SSPC SP 10-63T. For other exposures blast clean per SSPC SP 6 - 63 to a maximum profile of 1.5 mils.

Previously Painted Surfaces - Must be free of oil, grease or other contamination. For best results, spot blast exposed areas to be primed. Power tool brushings may be used for minor touch-up.

Application Directions

- Surface should be dry, above 60ºF, and free of rust bloom.

AEROSOL:

- Shake well until agitator ball is free. Repeat while using.
- Best results are obtained when sprayed above 60ºF. Spray from 12-15 inches away in light, even coats.
- Additional coats for heavy film can be applied when first coat is dry.
- When finished spraying, clean valve by turning can upside down and pressing button until only pressure escapes.
- If clogging occurs, remove button and clean slot and orifice with fine wire.

BULK:

- For air atomized spray, reduce 5-10% with Aromatic 100 Solvent, or Xylene for Improved Atomization. Fluid tips of .070" and air caps delivering 9-10 CFM at 30# PSI are acceptable. A 3/8" to 1/2" material hose is recommended.
- For airless spray, use .023 - .029 tips with 900 - 1800# fluid pressure.
- Material should be kept under constant slow speed agitation during use.
- Double lap all welds, seams, corners and edges to insure proper film thickness. Make even, parallel passes with 50% overlap to provide uniformity.

VIII. Package Description

Part Number	Container Size
18412	16 oz Aerosol
18413	1 Gallon Can

IX. Disposal

Disposal requirements vary by state and local jurisdiction. All used and unused product should be disposed of in conformance with local, state and federal regulations.

X. Special Use Warnings

Proper precautions should be taken to assure operator protection, including explosion-proof electrical fixtures when applied indoors. Do not puncture, incinerate or store above 120°F. Exposure to high temperatures may cause can to burst. Do not place in direct sunlight or near any heat source. Use only in well ventilated area. Avoid continuous breathing of vapor and spray mist. Avoid contact with skin and eyes. If ventilation is not adequate, respiratory protection should be worn.