



## ZRC Galviline® Galvanizing Repair Compound

ZRC's Galviline provides all the corrosion protection you've come to expect from the world's most specified galvanizing repair compound—in a silvery finish that closely matches the color of galvanized metal.

Enjoy the following great benefits with ZRC's Galviline:

- 95% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc (lead and cadmium free)
- Recognized under the Component Program of Underwriters Laboratories, Inc. as equivalent to hot dip galvanizing
- Meets and exceeds Fed. Spec. DOD-P-21035A (Galvanizing Repair Spec); MIL-P-26915A (USAF Zinc Dust Primer); ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings; SSPC-Paint 20 (Specification for Zinc-Rich Primer)
- Passes 3,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes 9-year subtropical testing
- Low VOC approved in all 50 states
- ISO 9001 registration assures the highest quality consistently

For specification assistance, application assistance, test reports and product selection please contact our customer support at (800) 831-3275 or our website [www.zrcworldwide.com](http://www.zrcworldwide.com).



### APPLICATIONS

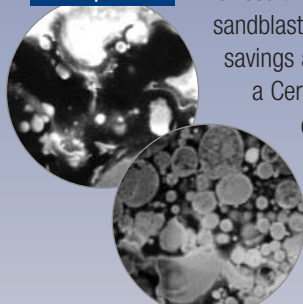
Repairing hot-dip galvanizing  
 Field applied galvanizing  
 Rust proofing welds  
 Repairing inorganic zinc  
 Regalvanizing of worn hot-dip  
 Metal fabrication  
 Construction  
 Manufacturing/OEM  
 Antenna Towers  
 Petrochemical Plants  
 Roads & Bridges  
 Tanks  
 Industrial Maintenance  
 Water Treatment  
 Marine & Offshore  
 Cooling Towers  
 Hundreds more!

## THE ZRC GALVILITE DIFFERENCE

The ZRC Galviline difference is made possible by Galviline's high zinc content (95% by weight in the dried film) of "ultra pure" (ASTM D 520 Type III) zinc dust, ensuring that more metallic zinc is available for superior galvanic protection against corrosion. This high purity zinc dust is compounded with a tenacious non-encapsulating binder using a highly controlled trade secret process in our state-of-the-art manufacturing facility.

#### Competitor

The result is a self-healing galvanic film that does not require sandblasting for most applications, providing both up-front labor savings and extended longevity of corrosion protection. We offer a Certificate of Compliance to these exacting material standards and a copy of our most recent ISO Registration Certificate.



ZRC

#### The Proof is in the Photos

These scanning electron microscope photos illustrate the difference between the true galvanic protection of Galviline and a competitor's low percentage zinc coating.

## TESTING & SPECIFICATION CONFORMANCE DATA

- Meets and exceeds Fed. Spec. DOD-P-21035A, formerly MIL-P-21035 (Galvanizing Repair Spec.)
- Meets and exceeds Fed. Spec. MIL-P-26915A (USAD Zinc Dust Primer)
- Passes 3,000 hours salt spray testing without failure\*\* (ASTM Des. B117)
- Passes Preece Test (ASTM Des. A239) for hot-dip galvanizing
- Resists intermittent dry-heat temperatures up to 750°F
- Meets and exceeds ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings)
- Meets and exceeds SSPC-Paint 20 (Specification for Zinc-Rich Primer), Type II (organic), Level I, Type III zinc dust

## UNDERWRITERS LABORATORIES, INC.\*\*

Galviline is recognized under the Component Program of Underwriters Laboratories.

## AVAILABILITY/COST

Immediately available off the shelf, Galviline Galvanizing Compound is offered directly from the manufacturer, or through a worldwide distribution network. The initial cost of Galviline is more than offset by substantial maintenance savings and the increased service life of protected surfaces. Galviline is available in 3.5 gallon pails, gallon cans, quart cans, and a convenient 12 oz. aerosol spray. Contact ZRC Worldwide for current pricing and further information.

## MATERIALS/FINISHES

A unique formulation of 95% pure zinc metal as a liquid coating, ZRC Galvanizing Compound and Galviline are manufactured to exacting standards in our own state-of-the-art manufacturing facility. Galviline's silvery metallic finish closely approximates the look of new hot-dip galvanizing. Standard ZRC Galvanizing Compound is light matte gray in color.

## SUGGESTED SPECIFICATION

Silvery-finish Galvanic Zinc-Rich coating containing 95% metallic zinc, by weight in the dried film; recognized under the Component Program of Underwriters Laboratories, Inc. as an equivalent to hot-dip galvanizing; as manufactured by ZRC Worldwide, Marshfield, MA ([www.zrcworldwide.com](http://www.zrcworldwide.com)) or other facility having been registered to the International Organization for Standardization ISO 9001 standard for quality.

For areas and industries with more stringent VOC restrictions specify ZRC 221.

\*\* Copy of reports available upon request



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## Technical Data

<b>TYPE</b>	Single pack, premixed, ready to apply, liquid organic zinc compound
<b>THEORETICAL COVERAGE</b>	400 ft <sup>2</sup> /gal @ 1.5 mil dry film thickness
<b>METALLIC ZINC CONTENT</b>	95% by weight in dry film
<b>FLASH POINT</b>	111°F (44°C) (SETA method, ASTM D3278)
<b>VOC CONTENT</b>	3.3 lbs/gal (385 gms/ltr) (ASTM D3960)
<b>WEIGHT PER GALLON</b>	24 lbs. (ASTM D1475)
<b>SOLIDS CONTENT</b>	86% (by weight)/52% (by volume)
<b>VISCOSITY</b>	2500 cps. Brookfield spindle #5 @ 100 RPM, @ 25°C
<b>MAXIMUM SERVICE TEMP - Intermittent</b>	750°F (399)°C
<b>MAXIMUM SERVICE TEMP - Constant</b>	350°F (177)°C
<b>ELECTRICAL CONDUCTIVITY</b>	73 million ohms per square @ 3 mils dry (resistivity)
<b>IMPACT RESISTANCE</b>	Greater than 30 inch-lbs. (extrusion) per ASTM-D2794
<b>ABRASION RESISTANCE</b>	11.5 liters per dry mil (tested @ 3 dry mils) per ASTM-D98-51
<b>POT LIFE</b>	At least 24 hrs. @ 77°F (25°C)
<b>SHELF LIFE</b>	Liquid - 3 yrs.; Aerosol - 1 yr.
<b>PACKAGING</b>	3.5 gallon pails, gallon, quart, and aerosol cans
<b>DRY TIME</b>	Set to touch. When ambient air dried, 20-30 minutes
<b>RECOAT TIME</b>	(Second coat) After 12 hrs. Under certain conditions, recoat time can be reduced. Contact manufacturer for specifics.
<b>TOPCOATING</b>	After 24-48 hrs., topcoat with acrylic, epoxy, urethane or vinyl type products. DO NOT USE alkyd, alkyd-modified acrylic, or lacquer type products. Consult our Guide to Topcoating for detailed instructions.

## Surface Preparation

Dependant upon surface condition and intended service. Typical examples include:

<b>GREASE &amp; OILS</b>	Solvent clean to SSPC-SP1
<b>RUST SCALE</b>	Power tool clean to SSPC-SP11
<b>MILL SCALE</b>	Sandblast to SSPC-SP6 (commercial)
<b>WATER IMMERSION</b>	(100°F maximum) Sandblast to SSPC-SP10 (near-white)

## Application

<b>BRUSH/ROLLER/AEROSOL</b>	Apply as received in container
<b>SPRAY (low pressure compressor type)</b>	
Atomized air pressure	50 lbs/in <sup>2</sup> = 3.5 kg/cm <sup>2</sup>
Fluid pressure	15-20 lbs/in <sup>2</sup> = 1.1-1.4 kg/cm <sup>2</sup>
Orifice of tip	0.080 inches (0.20 cm)
Viscosity reduction	4:1 GALVILITE:XXX Thinner -OR- 16:1 GALVILITE:Xylol/Xylene
<b>SPRAY (airless type)</b>	
Pump	30:1
Hose	1/2" (1.3 cm) (I.D.)
Orifice of tip	60°-0.026 inches (0.07 cm)
Type of tip	Tungsten carbide, reversing
Filter screens	Complete removal is recommended. However, if screens are employed, use no less than 30 mesh.
Viscosity	No reduction required
Recommended procedure	Connect hose directly to pump, without filter assembly, ensuring a hose length of 50 ft. max. Use in-pot agitator or continuous recycling. Use least pressure possible. Start at 1500 lbs/in <sup>2</sup> = 105 kg/cm <sup>2</sup> and increase as required for good spraying.
<b>CLEAN UP</b>	ZRC XXX Thinner* or Xylol/Xylene

\* XXX Thinner is our special solvent.



ZRC Worldwide has been registered by Underwriters Laboratories, Inc., to the International Organization for Standardization ISO 9000 Series Standards for Quality. The fact that ZRC is registered by UL to ISO 9001 assures our customers that the zinc-rich coatings manufactured in our facility are designed and manufactured according to the most stringent quality control standards, so you can rely on their consistency.

**ZRC Worldwide**  
INNOVATIVE ZINC TECHNOLOGIES

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