Enjoy the following great benefits with ZRC Cold Galvanizing Compound:

- 95% zinc in the dry film using only Type III “ultra pure” ASTM-D-520 zinc
- Recognized under the Component Program of Underwriters Laboratories, Inc. as equivalent to hot-dip galvanizing
- Passes 3,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes Preece Test (ASTM Des. A239) for hot-dip galvanizing
- 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.

**THE ZRC DIFFERENCE**

The ZRC difference is made possible by ZRC’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.

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.

**The Proof is in the Photos**

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

**APPLICATIONS**

Field applied galvanizing
Repairing hot-dip galvanizing
Rust proofing welds
Repairing inorganic zinc
Re-galvanizing 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!
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
- Meets and exceeds SSPC-Paint 20 (Specification for Zinc-Rich Primer), Type II (organic), Level I, Type III zinc dust

AVAILABILITY/COST

Immediately available off the shelf, ZRC Cold Galvanizing Compound is offered directly from the manufacturer, or through a worldwide distribution network. The initial cost of ZRC is more than offset by substantial maintenance savings and the increased service life of protected surfaces. Contact ZRC Worldwide for current pricing and further information.

MATERIALS/FINISHES

A unique formulation of 95% pure zinc metal as a liquid coating, ZRC Cold Galvanizing Compound is manufactured to exacting standards in our own state-of-the-art manufacturing facility.

SUGGESTED SPECIFICATION

Organic Zinc-Rich coating containing 95% metallic zinc, by weight in the dried film; as manufactured by ZRC Worldwide, Marshfield, MA (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

### Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Single pack, premixed, ready to apply, liquid organic zinc compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical Coverage</td>
<td>400 ft²/gal @ 1.5 mil dry film thickness</td>
</tr>
<tr>
<td>Metallic Zinc Content</td>
<td>95% by weight in dry film</td>
</tr>
<tr>
<td>Flash Point</td>
<td>111°F (44°C) (SETA method, ASTM D3278)</td>
</tr>
<tr>
<td>Viscosity Content</td>
<td>3.3 lbs/gal (385 gms/ltr) (ASTM D3960)</td>
</tr>
<tr>
<td>Weight Per Gallon</td>
<td>24 lbs. (ASTM D1475)</td>
</tr>
<tr>
<td>Solids Content</td>
<td>86% (by weight)/52% (by volume)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>73 million ohms per square @ 3 mils dry (resistivity)</td>
</tr>
<tr>
<td>Maximum Service Temp - Intermittent</td>
<td>750°F (399°C)</td>
</tr>
<tr>
<td>Maximum Service Temp - Constant</td>
<td>350°F (177°C)</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>Greater than 30 inch-lbs. (extrusion) per ASTM-D2794</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>11.5 liters per dry mil (tested @ 3 dry mils) per ASTM-D98-51</td>
</tr>
<tr>
<td>Pot Life</td>
<td>At least 24 hrs.</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Liquid - 3 yrs.; Aerosol - 1 yr.</td>
</tr>
<tr>
<td>Packaging</td>
<td>3.5 gallon pails, gallon, quart, and aerosol cans</td>
</tr>
<tr>
<td>Dry Time</td>
<td>Set to touch. When ambient air dried, 20-30 min. @ 1.5 mil (38µ) thickness</td>
</tr>
<tr>
<td>Recoat Time</td>
<td>12 hrs. Under certain conditions, recoat time can be reduced.</td>
</tr>
<tr>
<td>Topcoating</td>
<td>After 24-48 hrs., topcoat with acrylic, epoxy, urethane or vinyl type products.</td>
</tr>
<tr>
<td>DO NOT USE alkyd, alkyd-modified acrylic, or lacquer type products.</td>
<td></td>
</tr>
<tr>
<td>Consult our Guide to Topcoating for detailed instructions.</td>
<td></td>
</tr>
<tr>
<td>Recomend procedure</td>
<td>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/in² = 105 kg/cm² and increase as required for good spraying.</td>
</tr>
</tbody>
</table>

### Surface Preparation

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

#### Grease & Oils

Solvent clean to SSPC-SP1

#### Rust Scale

Power tool clean to SSPC-SP3 or SSPC-SP11

#### Mill Scale

Sandblast to SSPC-SP6 (commercial)

#### Water Immersion

(100°F maximum) Sandblast to SSPC-SP10 (near-white)

### Application

#### BRUSH/ROLLER/AEROSOL

Apply as received in container

#### SPRAY (low pressure compressor type)

- Atomized air pressure: 50 lbs/in² = 3.5 kg/cm²
- Fluid pressure: 15-20 lbs/in² = 1.1-1.4 kg/cm²
- Orifice of tip: 0.080 inches (0.20 cm)
- Viscosity reduction: 4:1 ZRC:XXX Thinner -OR- 16:1 ZRC:Xylol/Xylene
- 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/in² = 105 kg/cm² and increase as required for good spraying.

#### SPRAY (airless type)

- Pump
- Hose
- Orifice of tip
- Type of tip
- Filter screens
- Viscosity
- Recommended procedure

#### CLEAN UP

ZRC XXX Thinner* or Xylol/Xylene

* XXX Thinner is our special solvent.

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ISO 9001:2000 REGISTERED

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 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.