

ZRC 221[®] Galvanizing Compound

ZRC 221 provides the same true galvanic protection as our original ZRC Cold Galvanizing Compound using 43% few volatile organic compounds—another ZRC innovation in green zinc rich technology.

Enjoy the following great benefits with ZRC Cold Galvanizing Compound:

- Excellent for reducing VOC emissions in restricted areas/production facilities/LEED construction
- 92% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc
- CALTRANS Qualified Organic Zinc Rich Primer
- Meets and exceeds the performance requirements of 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 Preece Test (ASTM Des. A239) for hot-dip galvanizing
- 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 221 DIFFERENCE

The ZRC 221 difference is made possible by ZRC 221's high zinc content (92% 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 221 and a competitor's low percentage zinc coating.



APPLICATIONS

Field applied galvanizing Repairing hot-dip galvanizing Rust proofing welds Repairing inorganic zinc Regalvanizing of worn hot-dip Metal fabrication **LEED Construction Projects** Manufacturing/0EM Antenna Towers Petrochemical Plants Roads & Bridges Tanks Industrial Maintenance Water Treatment Marine & Offshore Cooling Towers Hundreds more!

TESTING & SPECIFICATION CONFORMANCE DATA

- Meets and exceeds the performance requirements of Fed. Spec. DOD-P-21035A,
 formark MIL P. 21035 (Columnizing Paper) Spec.
- formerly MIL-P-21035 (Galvanizing Repair Spec.)
- Meets and exceeds the performance requirements of Fed. Spec. MIL-P-26915A (USAF 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

AVAILABILITY/COST

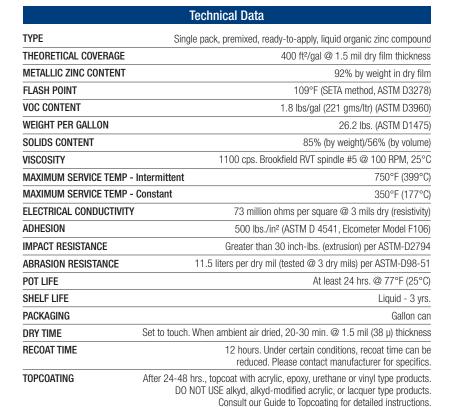
Immediately available off the shelf, ZRC 221 Galvanizing Compound is offered directly from the manufacturer, or through a worldwide distribution network. The initial cost of ZRC is more than offset by substantial maintenance savings and the increased service life of protected surfaces. Contact ZRC Worldwide for current pricing and further information.

MATERIALS/FINISHES

A unique formulation of 92% pure zinc metal as a liquid coating, ZRC 221 Galvanizing Compound is manufactured to exacting standards in our own state-of-the-art manufacturing facility.

SUGGESTED SPECIFICATION

Organic zinc rich coating containing a maximum of 221 gms/L VOC, as supplied, and at least 92% metallic zinc (ASTM D520, Type III), by weight, in the dried film, exhibiting galvanic, anti-corrosion protection to iron and steel, and approved as a qualified organic zinc rich primer by the California Department of Transportation; as manufactured by ZRC Worldwide, Marshfield, MA (www.zrcworldwide.com) or other facility having been registered to the International Organization for Standardization ISO 9000:2000 standard for quality.



Surface Preparation

Dependant 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 Apply as received in container

SPRAY (low pressure compressor type)

SPRAY (airless type)

 Pump
 30:1

 Hose
 1/2" (1.3 cm) (l.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

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.

CLEAN UP

* XXX Thinner is our special solvent.

Recommended procedure

ZRC XXX Thinner* or Xylol/Xylene

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.



145 Enterprise Drive, Marshfield, MA 02050-2132
Tel: 800.831.3275 or 781.319.0400 • Fax: 781.319.0404
www.zrcworldwide.com • E-mail: info@zrcworldwide.com

^{**} Copy of reports available upon request

TE UL