

ZRC ZERO VOC® Water-Based Galvanizing Compound

ZRC's revolutionary new water-based galvanizing compound offers a solution to problems of traditional inorganic zinc and solvent-based coatings.

Enjoy the following great benefits with ZRC's ZERO VOC:

- No solvents or solvent fumes
- 93% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc
- Extreme temperature and abrasion resistence
- ISO 9001 registration assures the highest quality consistently
- Meets and exceeds Fed. Spec. DOD-P-21035A (Galvanizing Repair Spec);
 MIL-P-26915A (USAF Zinc Dust Primer); SSPC-Paint 20 (Specification for Zinc-Rich Primer)
- Passes 10,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes Preece Test (ASTM Des. A239) for hot-dip galvanizing

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 ZERO VOC DIFFERENCE

ZRC ZERO VOC solves the problems inherent in traditional inorganic zinc coatings: near-white sandblasting, difficult spraying, short pot life. We've resolved these issues by creating a unique hybrid featuring the best features of organic and traditional inorganic zinc coatings. As a result, ZRC ZERO VOC offers the same true cathodic protection as our original ZRC, without volatile organic content.

- No sandblasting required*
- Longer pot life
- · Applies easily without clogging spray equipment
- More abrasion resistent and faster drying
- · One coat coverage with second coat option

*See Surface Preparation section of Technical Specifications



APPLICATIONS

Galvanize bare metal conveniently in your own facility without the transportation and costs of hot-dip galvanizing.

The natural solution for:

OEM
Petrochemical plants
Metal fabricators
Tanks
Marine and offshore
and hundreds more!

TESTING & SPECIFICATION CONFORMANCE DATA

- Meets and exceeds Fed. Spec. DLD-P-21035A, formerly MIL-P-21035 (Galvanizing Repair Spec.)
- Meets and exceeds Fed. Spec. MIL-P-26915A (USAD Zinc Dust Primer)
- Passes over 10,000 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 1700°F
- 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 ZERO VOC Galvanizing Compound is offered directly from the manufacturer, or through a worldwide distribution network. The initial cost of ZERO VOC is more than offset by substantial maintenance savings and the increased service life of protected surfaces. ZERO VOC is available in gallon kits. Contact ZRC Worldwide for current pricing and further information.

MATERIALS/FINISHES

A unique formulation of 93% pure zinc metal as a liquid coating, ZRC ZERO VOC is manufactured to exacting standards in our own state-of-the-art manufacturing facility.

SUGGESTED SPECIFICATION

A water-based, two-component zinc-rich coating containing 93% metallic zinc (ASTM D 520 Type III), 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 9001:2000 standard for quality.

**Copy of reports available upon request



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

Technical Data		
TYPE	Two-pack water-based galvanizing compound	
THEORETICAL COVERAGE	300-350 ft² (28-33 m²) per gallon kit @	
	1.5 mil (38 μ) dry film thickness	
METALLIC ZINC CONTENT	93% by weight in dry film	
FLASH POINT	None	
VOC CONTENT	0 lbs/gal (0 gms/ltr) (ASTM D3960)	
WEIGHT PER GALLON	25.2 lbs. (ASTM D1475)	
SOLIDS CONTENT	81% (by weight)/43.7% (by volume)	
VISCOSITY	525 cps. Brookfield RVT spindle #5 @100 RPM, 25°C	
MAXIMUM SERVICE TEMP - Intermittent	1700°F (927°C)	
MAXIMUM SERVICE TEMP - Constant	1200°F (694°C)	
ELECTRICAL CONDUCTIVITY	2 million ohms per square @ 3 mils dry (resistivity)	
ADHESION	275 lbs./in² (ASTM D 4541, Elcometer Model F106)	
IMPACT RESISTANCE	Greater than 172 inch lbs. (extrusion) (per ASTM-D2794)	
POT LIFE	24 hours (longer times before use will result	
	in diminished performance)	
SHELF LIFE	2 yrs.	
PACKAGING	One-gallon kits	
DRY TIME	Set to touch. When ambient air dried,	
	15 minutes at 1.5 mil (38µ) thickness	
ADDITIONAL COATS	Additional coats - up to 6.0 mils total dft (152 µ) -may be	
	applied. Allow a 4 hr. minimum cure time at 25°C/77°F to extend corrosion protection	
TOPCOATING	After 24 hrs., topcoat with acrylic, epoxy,	
TOT GOATHYG	After 24 firs., topcoat with acrylic, epoxy, urethane or vinyl type products.	
	DO NOT USE alkyd or alkyd-modified acrylic-type products.	
	Consult our Guide to Topcoating for detailed instructions.	

Surface	Dro	DOKO	tion
	212		

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 (SIS St 2 or 3)
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. For Brush Application, use 100% Natural 100% Chinese bristle brushes. For Roller Application, use 3/8" nap rollers, made of mohair or lambs wool (sheepskin).

SPRAY (low pressure compressor type)

Atomized air pressure $50 \text{ lbs/in}^2 = 3.5 \text{ kg/cm}^2$ Fluid pressure $15\text{-}20 \text{ lbs/in}^2 = 1.1\text{-}1.4 \text{ kg/cm}^2$ Orifice of tip 0.080 inches (0.20 cm) Viscosity reduction Add water only if absolutely necessary

SPRAY (airless type)

 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,

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 Water



ISO 9001:2000

ZRC Worldwide has been registered 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.

ERED © 2019 ZRC Worldwide. All rights reserved.