

Superior zinc coating technology for the protection of iron and steel.

Zinc based coating products on the market that claim to provide rust protection are generally zinc rich paints that at best act as expensive barrier coatings. They do not provide the electro-chemical galvanic action which is the key to corrosion protection. To function anodically, the zinc particles must be in intimate contact with one another so that the film itself is conductive. Also the binder material must be such that it does not insulate the zinc particles from each other or from the base substrate (steel or iron) inhibiting galvanic action.

This is achieved in the ZRC cold galvanizing compounds by the high zinc loading (95% by weight in the dry film) and proprietary binder. ZRC Cold Galvanizing products have been around for more than 50 years and are the only coatings that have been certified by the Underwriters Laboratories as an equivalent of hot dip galvanizing. Major projects around the world such as the 'Peace Bridge' over the Niagra River in N. America and the Aomori Cement Plant in Japan are proof of the trust and respect for ZRC cold galvanizing compounds.

ZRC Cold Galvanizing compounds can be applied via dipping, spraying or brushing and, best of all, this can be done at the factory or job site. This is not possible with hot dip galvanizing. A gallon of ZRC Cold Galvanizing Compound will provide one coat of approximately 1.5 mil dry film over 400 square feet of surface. Two coats are recommended for optimal protection. ZRC coatings meet or exceed recognized VOC standards. ZRC compounds have been formulated to tolerate the rigors of short and long distance shipping and will not settle out and compact. They can be easily stirred back into full dispersion.

ZRC® Cold Galvanizing Compound



- Fifty years of proven success
- Equivalent to hot-dip galvanizing
- Single-component - Battleship gray finish
- Apply by brush, roller or spray
- Meets VOC standards
- Available in clog-free aerosol form



ZRC® Galvilité Galvanizing Repair Compound



- Designed specifically for field and shop repair of hot dip galvanizing
- Silver finish
- Industry-leading 95% zinc in the dried film
- Single-component
- Apply by brush, roller or spray
- Meets VOC standards



ZRC® 221 Cold Galvanizing Compound



- Newest innovation in zinc rich technology
- Same superior performance as ZRC Cold Galvanizing Compound
- Over 40% lower in volatile organic compounds
- Lowest VOC zinc rich compound available



ZRC® Zero-VOC Galvanizing Compound



- Contains no volatile organic compounds
- Combines best features of organic and inorganic zincs
- Convenient one-coat system
- Easily cleans up with water
- Meets VOC standards



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ADVANTAGES OF USING ZRC IN PLACE OF HOT-DIP GALVANIZING

ZRC is the only cold galvanizing compound on the market that is ISO 9001 registered and recognized by the Underwriter's Laboratories' Component Testing Program as equivalent of hot-dip. Because of the advantages it offers over hot-dip galvanizing it is widely accepted by architects and engineers.

ADVANTAGES:

- More impact resistant than hot-dip
- Galvanizes and primes in one easy coat
- Eliminates hot-dip embrittlement & warpage
- Will not clog threads - eliminates re-tapping
- No "flaking" and separating when bent
- No costly transportation or down time
- Can be applied before or after fabrication
- Better job quality control and no size limitation

TEMP. TOLERANCE:

INTERMITTENT

750°F (399°C) - ZRC & Galvilitite

1700°F (927°C) - Zero VOC

CONTINUOUS

350°F (177°C) - ZRC & Galvilitite

1200°F (694°C) - Zero VOC

SPECIFICATIONS THAT ZRC MEETS

1. ZRC meets and exceeds Fed. Spec. DOD-P-21035A, the Department of Defense galvanizing repair spec
2. ZRC meets and exceeds Military Specification MIL-P-26915A, the USAF zinc-dust spec.
3. ZRC may be used under Military Specification MIL-P-26433 for tower protection – temperature and arctic.
4. ZRC passed the Preece Test ASTM Des A239 for hot dip galvanizing.
5. ZRC passes 3,000 hours of salt spray testing without failure (ASTM-B117-73).
6. ZRC resists intermittent dry-heat temperatures up to 750°F.
7. ZRC meets and exceeds Canadian Government Spec. 1-GP-181A for hot dip repair.
8. ZRC meets and exceeds ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot Dip Galvanized Coatings).
9. ZRC compound is authorized for food contact under federal regulation 21 CFR 175.390 for use as a coating on bulk re-usable containers intended for storing, handling and transporting food.
10. ZRC compound is recognized under the Component Program of Underwriters' Laboratories, Inc. MH7035, and is retested by U.L. every year.
11. ZRC compound is chemically accepted by the US Dept. of Agriculture. It may be used in processing or storage areas for meat or poultry food products prepared under federal inspection.
12. ZRC meets and exceeds SSPC-Paint 20 (Specification for Zinc-Rich Primers).
13. ZRC meets and exceeds SSPC-Paint 29 (Specification for Zinc Dust Sacrificial Primer, Performance based).