Translated from Spanish to English - www.onlinedoctranslator.com

ZRC, a compound for cold galvanizing, was selected after carrying out a series of comparative tests between similar products of different nationalities, in which ZRC showed notably superior performance in preventing corrosion of iron and steel.

Due to its unique composition of 95% metallic zinc and its genuine cathodic protection, widely recognized by Underwriter's Laboratories, Inc., ZRC, it has built a long history of corrosion prevention, dating back to 1952, in applications ranging from tracking antennas from aerospace to skyscrapers and industrial complexes around the world, and as a result, ZRC WORLDWIDE has grown to become an international leader in corrosion control, with sales in the US, Japan, South Korea, Hong Kong, Singapore, Indonesia, Taiwan, Malaysia, Nepal, Pakistan, Saudi Arabia, Kuwait, Oman, Israel, Kenya, CEE, Australia, Chile... etc., and now also in Mexico.

All ZRC is produced and tested to the highest quality at ZRC Worldwide's state-of-the-art manufacturing facilities in Quincy, Massachusetts, near Boston, and subjected to constant testing at our laboratory in Mexico to ensure optimal use. of the qualities of ZRC by our clients.

DESCRIPTION

ZRC is a liquid compound that dries to form a film, with 95% pure metallic zinc, which binds strongly to clean iron, steel, aluminum and copper and through its electrochemical action provides maximum protection against the formation and bleeding of the rust

ZRC vs PAINT

It is important to understand the conceptual difference between ZRC and paint.
While paints only provide surface protection, ZRC acts cathodically against corrosion. Thus, in the presence of moisture, its metallic zinc content becomes the anode and the underlying surface the cathode, so that corrosion attacks the zinc leaving the base metal intact.
If the "skin" of a paint is broken in any way, it will oxidize the base metal in that area and the paint will allow that oxidation to spread below the break. However, if the ZRC is scratched to bare metal, the zinc will form an insoluble zinc salt on the exposed area. This heals the break and continues to protect the surface against any corrosion.

In this way, the ZRC compound prevents the advance of oxidation

ADVANTAGES AND CHARACTERISTICS

In zinc compounds, like all protective coatings, there are various levels of quality and performance. ZRC COLD GALVANIZING COMPOUND is at the top of the scale, both in terms of formulation and performance characteristics.

Containing 95% pure metallic zinc produced under carefully controlled conditions, ZRC provides true cathodic protection for ferrous and non-ferrous surfaces. It has repeatedly proven itself in the most hostile environments.

No other zinc coating surpasses the protection of ZRC

ZRC Offers the following features:

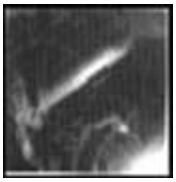
- It stops rust and its advance in any size, anywhere, and also renews galvanized surfaces that are worn or cracked.

- It already comes ready to use.
- It can be applied by brush, roller, spray gun or spray. It is
- effective on all ferrous and non-ferrous surfaces. It is not
- toxic.
- It is accepted by the United States Department of Agriculture (USDA) It is cleared by the
- Food and Drug Administration (FDA)
- And it is recognized by independent laboratories as equivalent to hot-dip galvanizing.

USES AND APPLICATIONS



ZRC INSTEAD OF HOT GALVANIZING.
ZRC is widely used in lieu of hot-dip galvanizing with easy brush, roller, spray or spray applications. Independent laboratories, such as Underwriter's Laboratories, Inc., have found that a minimum dry film thickness of 76 microns (3 mils) of ZRC is equivalent to hot-dip galvanizing of the same thickness.ZRC makes galvanizing an "in-plant" operation for many fabricators.



REPAIR OF DAMAGED GALVANIZED.
ZRC is intensively used to repair hot-dip galvanizing damaged by welding, cutting, burning, shearing, etc. The repair made with ZRC meets and exceeds the American federal standard DOD-P-21035A (Galvanizing Repair Spec.).



REGENERATION OF GALVANIZED SURFACES.
Weathered galvanized surfaces, such as corrugated sheets, can be regalvanized with ZRC. The damaged surface should first be wire brushed to remove all rust and loose materials, and then cleaned. If the surface has bare parts, they must receive a first local layer of ZRC that covers at least an additional 3cm around the damaged part, before the general coating.

WELD PROTECTION.

Welds are susceptible to corrosion since the welded area has a different electrical potential than the base metal. ZRC applied to weld seams, and their surroundings, inhibits their corrosion through its galvanic protection. The weld surface should be well brushed and, if oily, cleaned with a phosphoric acid based compound or a strong solvent. Clean the weld until the metal shines and then apply ZRC over the weld and up to 3cm around the weld. Thus, ZRC, easily applied, will ensure long-lasting protection.

SURFACE REPAIR WITH INORGANIC ZINC

ZRC is ideal for touching up INORGANIC ZINC coatings, silicate-based, damaged by welding, cutting or transport. Both the damaged area and the area adjacent to it should be washed thoroughly with water or a mild detergent to remove any zinc oxide that may have formed. When drying, the entire washed area must be covered with a homogeneous layer of ZRC

APPLICATIONS



- PLATFORMS: ZRC is used to protect them above and below sea level. MANUFACTURING:
- ZRC is specified as long-term protection for various metals.

- GALVANIZING: ZRC allows many manufacturers to galvanize "in their plant", avoiding "waiting times" for their products in hot-dip galvanizing plants.



- MANUFACTURING: International manufacturers such as Leach Co., Oshkosh, Wl, etc... specify ZRC to protect their products. Leach Co. uses ZRC to prevent corrosion of the interior surfaces of its water tanks.
- BRIDGES: ZRC is specified as a base coating for the protection of structural support steel.
- SATELLITE DISHES: ZRC is extensively used as a base coating, it is a double layer system, for the protection of antennas in highly corrosive areas.



- NUCLEAR PLANTS: ZRC has been applied in all phases of their construction.

At the "Seabrook" plant, in Seabrook, NH, ZRC was chosen to protect the air ducts (HVAC), throughout the entire complex.

- TRANSMISSION TOWERS: ZRC is used as the original protection of all structural steel; or to regalvanize both the support cables and other parts of the towers, "hot-dip galvanized" that have suffered deterioration over time.
- INDUSTRIAL MAINTENANCE: ZRC is used for the maintenance of structures and equipment inside and outside of industrial, petrochemical and food processing plants. (ZRC is accepted by USDA and FDA).



- PUBLIC WORKS: Steel structures such as the latticework of the Peace Bridge, between Buffalo, NY and Fort Erie, Ontario (Canada) have been protected with ZRC
- CONSTRUCTION: ZRC has unlimited uses; for example, it has been used in the structural frames of the Bank of America building in San Francisco, in the support system for the walls of the Republic Bank in Dallas, Texas, etc.



- TANKS: ZRC is used as an exterior coating for water tanks. The tank that appears in the photo was protected with ZRC 20 years ago and, despite being in a very corrosive environment, it is still in good condition.
- WASTE TREATMENT: ZRC is used to protect steel in environments as extremely hostile as sewage treatment plants and industrial waste.

TECHNICAL DATA, CERTIFICATIONS AND STANDARDS

TECHNICAL DATAZRC is a metallic zinc coating with an organic binder. Due to its unique formulation, ZRC is accepted into the Underwriter's Laboratories, Inc. Component Program.

GUY:Organic liquid zinc compound, single package, premixed and ready to apply. FINISH:Matte light grey. THEORETICAL COVERAGE:41.81M_2

(450 $ft._2$) per gallon, with a thickness

PROCEDURE
OF APPLICATION SURFACE PREPARATION.
It will depend on the condition of the surface and the service that is desired. The following are some typical examples.
Grease and oil-Solvent Cleaning per SSPC-SP1-63 Flake Rust-95% Power Tool Clean per SSPC-SP3-63.

Mill scale-

CERTIFICATIONS AND STANDARDS

DATA ACCORDING TO SPECIFICATIONS AND TESTS.

ZRC meets and exceeds US Federal Standard DOD-P-21035A, formerly MIL-P-21035 (Repair of Galvanizing).

ZRC meets and exceeds the American Federal standard MIL-P-26915A,(Zinc-rich primers for the

0.038 mm (1.5 mils.) dry film.

METALLIC ZINC CONTENT: 95% by weight in the dry film. FLASHPOINT: 40° C (104° F) (M. SETA).

WEIGHT PER GALLON:10,886 kg (24 pounds).
SOLIDS CONTENT:52% by volume.

GOO:1900 cps. Brookfield Cup No 6 at 100 RPM, at 25° C.

MAX TEMP. OF SERVICE:399°C (750° F) (air temp.
surrounding).
SPECIFIC WEIGHT:2,797
ELECTRICAL CONDUCTIVITY (RESISTIVITY):73 Megohms, cubed 3 mils. per side. IMPACT RESISTENCE: Greater than 30 in.-lbs. (extrusion) (according to ASTM-D968-51).
ABRASION RESISTANCE:
11.5 liters per 25.4 microns (1 mil) of dry film (tested with 3 mils of dry film) (per ASTM-D968-51)

LIFE IN OPEN BOAT:At least 24 hours.
SHELF LIFE:

to. Canned presentation: 3 years minimum.
b. Presentation in aerosol: 1 year minimum.

PRESENTATIONS:Drum of 13,247 liters. (3.5 gallons); can of 3,785 liters. (1 gallon); 0.946 liter can. (1/4 gallon); and aerosol of 0.118 lts. (12 ounces).
DRYING TIME:Dries to the touch in 20-30 minutes (in a dry environment).
TIME FOR SECOND LAYER: After 12 hrs. Under certain conditions this time can be reduced.

TIME FOR FINISH PAINT:After 24-48 hrs., ZRC can be topcoated with acrylic, chlorinated rubber, epoxy, urethane or vinyl paints.

Do not use paints
Alkydalic or Lacquers

Sandblasting (commercial) per SSPC-SP6-63
Immersion in water (38°C=100° F maximum) Sandblasted (near white metal) per SSPC-SP10-63T.

ZRC APPLICATION

SPRAY GUN (low pressure compressor type). air pressure: 50lbsfluid pressure:15-20 lbs.

Nozzle Orifice:80/1000 ths. (0.080).

Viscosity Reduction:4 parts of ZRC for 1 of Thinner XXX (special) or 16 parts of ZRC for 1 ofxylolor Xylene

SPRAY GUN (airless type).

Bomb:30:1
Hose:½" ID. Airless type

Nozzle Orifice:60°-26/1000 (0.026)

Nozzle Type:Tungsten carbide, reversible,
(self-cleaning)
Filter:Its complete removal is recommended.
However, if used, it must be no less than 30 mesh. Goo:No reduction is needed.

Recommended procedure: Connect hose directly to pump, without filter, with a maximum hose length of 50ft. Use the lowest pressure possible; start with 1500 lbs. and increase as required for a good spray.

BRUSH OR ROLLER
Shake and use without watering down.

EQUIPMENT CLEANING
Use our Thinner XXX (special),xylolor Xylene

Air Force).

ZRC can be used under the American Federal standard MIL-P-26433 (Torres in temperate and arctic climates).

ZRC exceeds 3,000 hrs. of salt chamber without failure (ASTM Des. B117).

ZRC passed the Preece test (ASTM Des. A239-41) for hot dip galvanizing.

ZRC withstands temperatures above 399°C (750°F) with heat intermittent and dry.

ZRC meets and exceeds Canadian Standard I-GP-181A (Zinc Coatings).

ZRC meets and exceeds ASTM Des. A-780 (Repair of damaged hot-dip galvanizing).

ZRC meets and exceeds SSPC-Paint 20 (Zinc Rich Primers).

UNDERWRITER'S LABORATORIES, INC.

ZRC is accepted into the Underwriter's Laboratories, Inc. Components Program.

FDA CLEARANCE
ZRC has been authorized by the US Food and Drug Administration, under the regulation
21CFR175.390, to be used as a coating in contact with
food, in reusable containers for storage, handling and transportation thereof.

USDA ACCEPTANCE..ZRC has been accepted by the US Department of Agriculture (USDA) for use in processing and storage areas for meat products (beef and poultry) prepared under federal inspection.

OPERATION AND MAINTENANCE.
ZRC provides long-lasting protection that does not require any special maintenance beyond a routine inspection of the surface condition of the coating.

COMPLIES WITH THE CFE-P26 STANDARD

AVAILABILITY AND COST

Galvanizadora Nacional, SA of CV. maintains sufficient stocks of ZRC in stock to guarantee its customers a immediate availability. And we can send ZRC to any part of the republic from where we request it.

The initial cost of the ZRC is more than offset by the substantial savings in maintenance and increased in the useful life of the surfaces protected in ZRC

APPEARANCE

The normal color of a coating with ZRC (Galvalite) is light gray matt, very similar to that of the galvanized by inersion in hot.

ZRC ALSO COMES IN A SPRAY.

ZRC Cold Galvanizing Compound is also available in aerosol (spray) form, providing the following additional benefits:

- Maximum ease of use
- Ideal for small jobs, such as weld protection or touching up damaged galvanizing.
- Ideal for protecting hard-to-reach areas.
- with spray nozzle unclogging.
- A solvent that does not damage the ozone layer (does not contain chlorofluorocarbons).
- Avoids the user cleaning equipment.

For sale at:

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www.aguayaire.com