

: WHY GALVANIZE : : **PROMTECH GROUP : Promtech Consultancy :**
INNOVATIVE COATING INDUSTRIES : MIDC, Pimpri Pune : THANE: India

: COLD GALVANIZING PROCESS with ZINC METAL SPRAY Light Grey Finish :
: COLD GALVANIZING PROCESS with ZINC Bright SPRAY Silver Bright Finish :
ZINKOTE 20 : 99% Pure ZINC FLAKES RICH Quick air Drying Paint used by BRUSHING

How Zinc Protects Steel From Corrosion : The reason for the extensive use of hot dip galvanizing is the two-fold nature of the coating. As a barrier coating, it provides a tough, metallurgically bonded zinc coating, which completely covers the steel surface & seals the same from the corrosive action of the environment. Additionally sacrificial action of zinc protects steel even where damage / discontinuity occurs in coating.

Zinc forms a Metallurgical Bond with steel **Zinc coating has good Impact & Abrasion Resistance**
Zinc Spray offers Corner & Edge Protection **A Galvanized Coating Is a Complete Coating**
Zinc Metal Spray offers Satisfactory Corrosion Performance in Sea Water & Salt Spray Testing.

For damaged Galvanizing, Corroded & Welded Galvanized surfaces, cold galvanizing by Zinc Metal Spray is an ideal cure. This quick drying, high solids coating provides superb protection to steel & ferrous metals against harsh corrosive environments. Zinc Metal Spray is a premium performance epoxy coating which fuses to metal substrates to guard against corrosion. This coating constantly fights against rust and corrosion creepage. It is highly resistant to salt water corrosion, does not sag & may be top-coated with conventional primers, Paints & Epoxies. Cold Galvanizing Spray provides the protection of hot-dip galvanizing plus the convenience of on the job aerosol application. Cold Galvanizing Spray contains 95% pure zinc, forms a tough, durable, zinc metal coating that bonds electrochemically with the base metal to protect against rust & corrosion.

CHARACTERISTICS of Cold Galvanizing Zinc Metal Spray :

Zinc Metal Spray offers 99% Pure Zinc Deposit, has electrochemical bond, very quick drying, needs minimum surface preparation. Easy & User-friendly Application for Pre-despatch inspection stages & On-site use for Touch-up. Stops Rust & Corrosion on any Iron & Mild Steel surface, Adds corrosion protection to galvanized & welded surfaces. It is extremely useful for Indoor/ Outdoor use. Efficient spray nozzle minimizes drips & runs. Zinc metal spray can be applied over wide range of temperatures & humidity, reduces maintenance costs. Years of protection for structural surfaces eliminates the need for constant scraping, wire brushing, repainting.

PHYSICAL and CHEMICAL STANDARDS :

Zinc Contents : 35 to 40 % in the formulation. Purity of Zinc : 99% Pure Spray dried Vacuum Evaporated Zinc Flakes : Zinc Contents in the DFT 88 – 92 % Colour : Greyish & Silver Finish
Spray Cone (spray at 10" to 12 " distance) : 2" to 4 " cone Film Thickness : 20 - 25 microns
Propellant : Hydrocarbon We can also offer Carbon Dioxide MOQ 250 cans Coverage : Two Mtr Square
Salt Spray Life : over 500 hrs of fog chamber Salt Spray Test Recommended Coats : Max : two coats.
Solvent Type : Non CFC or Chlorinated Solvents Resin (Carrier / Binder) : Modified ACRYLIC
Touch Dry Time : 3-5 Min Over Coating Time : 30 Min Hard Dry Time: 24 Hrs Can Shelf Life : 1 Year
Storage Conditions : Store the Aerosol Spray cans in a cool , dry place in cupboard / closed shelf.

Zinc Metal Spray : 500 MI Spray Cans : Rs 275 / Can : Zinc Bright Spray : 500 MI Spray Cans : Rs 320 / Can :
ZINKOTE 20 GP : 99% Pure ZINC Dust ZINKOTE 20 Premium : 99% Pure Zinc Flakes Rich Paint : 4 Lit Tins : Rs 630 / Ltr

USES & APPLICATIONS of Cold Galvanizing Zinc Metal Spray :

- **Excellent for use for industrial maintenance, indoors or outdoors, for the following :**
- **Structural Steel Bridges / Dams / Transmission & Telecommunication Line Towers / Antennas**
- **Railway Transmission Lines, Electric Poles, High rise Masts, Stairs, Railings & Water drain pipes**
- **Nuclear / Thermal & Hydro power Generation Plants & Equipments, Wing Mill Power equipments**
- **Marine Applications, Aircrafts, Ships, Naval & Sea going vessels, Road Crash barriers & Railings.**
- **Water Pipelines, Water Treatment & Effluent treatment plants & Equipments, Nuts & Bolts.**
- **Damaged & Welded galvanized steel structures Metal equipment, Cable Trays, HVAC equipment**
- **Automobiles, Cars, Trucks, Tractors & Farm Equipments, Exhaust Manifolds & Chimney,**
- **Green Houses, Farm Equipments, Cattle feed & Poultry plants, Garden Furniture & Tools**
- **Air conditioning systems, fencing, piping, sumps, water tanks, gutters, Hoarding structures,**
- **Oil Drilling Rigs & platforms, off-shore rigs, steel windows, sheet metal and welds-joints.**
- **Used in Corrosive & harsh environments in Heavy chemical industries, viz Pharmaceutical plants,**
- **Oil refineries, Cement, Paper & Pulp, Sugar, Pesticides / Drugs & Dyes chemical process piping.**

Surface Preparation : Surfaces to be coated must be clean, dry & totally free of dust, dirt Rust & scales and burnt carbon. Wipe the surface with Solvent / Thinner (for removal of oil & Grease) followed by Wire brushing / Grinding.

Method of use for Cold Galvanizing Spray : Shake the can well for 1 to 2 minutes before spraying. Repeat shaking of can often during application. Wear protective eyewear when spraying. Point spray nozzle away from face. Hold spray can upright about 8"-12" from surface, apply thin, even coats with consistent back & forth motion. Allow 15min to dry between coats & 6 hrs to dry before top coating. After use, or if spray spatters, turn the can upside down & spray to **clean the spray mechanism.** Protect surrounding surfaces from over-spray.

MOST IMPORTANT : All HOT DIP GALVANIZED Surfaces have a NATURAL INBORN & Generic Property of GREYING (Losing Bright Shine) on Exposure to Atmospheric Air, Exposure to Sunlight & UV Radiations. With the passage of Time . To Restrict this Property of All GI articles, equipments & surfaces, it is customary to BLEND ALUMINIUM Metal Powder in Such Coatings . Aluminium offers GLOSS & BRIGHT FINISH and adds to AESTHETICS and BRIGHTNESS to the Coated Metal. The most Important function and property of ANTI CORROSION : SALT SPRAY TEST LIFE is due to ZINC (which has a natural Grey Colour. Hence any change of COLOUR SHADE on time duration is NOT TO BE CONSIDERED AS ALARMING. **Shade of the painted GI Surface (Either Hot Dip or COLD Galvanized Steel) is Of VERY LOW TECHNICAL SIGNIFICANCE & the Most Important property SHALL ALWAYS be Salt Spray Test Life.** To RETAIN THE BRIGHTNESS of Hot Dip and Cold Galvanized surfaces over a LONGER Time Duration , The surface may be over-coated with ACRYLIL Quick Drying Clear Acrylic Lacquer by Spray application.

STANDARDS for Reference : Confirms to the requirements of **ASTM A – 780 / IS 4759 / BS : 729** **E&OE**

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