

PLOT NO. 60/61, PANDOL INDUSTRIAL AREA, VED ROAD, KATARGAM,
SURAT, GUJARAT -395004

TECHNICAL DATA SHEET (RP - 411)

ZINC GALVANIZING PAINT

PRODUCT DESCRIPTION

RP-411 Zinc Galvanizing Paint is a high-performance, zinc-rich protective coating formulated to provide long-term corrosion protection to ferrous metal surfaces. The coating contains approximately 95% pure zinc dust in the dry film and is bound with a specially modified epoxy resin system that provides excellent adhesion, durability, and weather resistance.

The coating offers cathodic (sacrificial) protection similar to hot-dip galvanizing and is specifically designed for the repair, maintenance, and protection of galvanized steel and exposed metal surfaces. The zinc particles form an electrochemical barrier that protects steel from corrosion even when the coating film is damaged.

The Bright Grade variant has been specially developed to closely match the appearance of freshly hot-dip galvanized surfaces while delivering superior anti-corrosion performance.

PRODUCT FEATURES

- Zinc-rich cold galvanizing coating.
- Contains 95% pure zinc in the dry film.
- Provides cathodic (sacrificial) corrosion protection.
- Excellent adhesion to steel and galvanized substrates.
- Fast drying and easy application.
- Outstanding resistance to atmospheric corrosion.
- Excellent resistance to salt spray and marine environments.
- Suitable for touch-up and repair of damaged galvanizing.
- Electrically conductive coating film.
- Bright galvanized appearance available.
- Long service life under industrial and coastal conditions.

PRODUCT COMPOSITION

Property	Value
Colour	Zinc Grey
Variant	Bright Grade (Hot-Dip Galvanized Finish)
Zinc Content (Dry Film)	95% Pure Zinc Dust
Binder System	Modified Epoxy Resin
Finish	Metallic Matt to Semi-Gloss
Components	Single Pack
Specific Gravity	2.20 – 2.60 (Approx.)
Solids by Weight	85 ± 5%
Solids by Volume	55 ± 5%

RECOMMENDED APPLICATIONS

Galvanized Surface Repair

- Touch-up of damaged hot-dip galvanized surfaces
- Repair of weld seams
- Repair of cut edges
- Repair of drilled sections
- Restoration of galvanized structures

Industrial Applications

- Structural steel
- Transmission towers
- Pipe supports
- Storage tanks
- Industrial machinery
- Fabricated steel components

Automotive Applications

- Vehicle chassis
- Car body panels
- Trailers
- Heavy commercial vehicles
- Agricultural equipment

Marine Applications

- Port structures
- Shipbuilding components
- Offshore structures
- Coastal steel installations
- Marine equipment

Utility & Infrastructure Projects

- Thermal power plants
- Chemical processing plants
- Water treatment facilities
- Telecommunication towers
- Railway infrastructure
- Bridges and flyovers

TECHNICAL DATA

Property	Value
Product Type	Zinc-Rich Cold Galvanizing Compound
Colour	Zinc Grey
Finish	Metallic Zinc Finish
Coverage	8–10 m²/Litre at 30 Microns DFT
Recommended DFT	30–40 Microns per Coat
Recommended WFT	55–70 Microns
Flash Point	Above 25°C
VOC Content	As per formulation
Shelf Life	12 Months

PERFORMANCE PROPERTIES

Corrosion Protection

Excellent cathodic protection due to high zinc loading.

Adhesion

Excellent adhesion to:

- Mild Steel
- Galvanized Steel
- Fabricated Steel
- Structural Steel

Salt Spray Resistance

Excellent resistance under accelerated salt spray exposure.

Water Resistance

Excellent.

Humidity Resistance

Excellent.

Abrasion Resistance

Very Good.

Impact Resistance

Good.

Conductivity

Electrically conductive coating suitable for spot welding applications.

DRYING CHARACTERISTICS

Under normal conditions (25°C and 50% RH):

Property	Time
Touch Dry	15–20 Minutes
Handle Dry	1 Hour
Hard Dry	4–5 Hours
Fully Cured	24 Hours

Drying times may vary depending on temperature, humidity, and film thickness.

SURFACE PREPARATION

Proper surface preparation is essential to obtain maximum coating performance.

Steel Surfaces

Remove:

- Oil
- Grease
- Dust
- Rust
- Mill Scale
- Loose Coatings

Recommended Surface Preparation

- Abrasive Blast Cleaning: Sa 2½ (ISO 8501-1)
- Mechanical Cleaning: St 3 minimum

Galvanized Surfaces

- Remove white rust and contaminants.
- Light sweep blasting is recommended where necessary.
- Clean thoroughly before coating.

APPLICATION METHODS

The product may be applied by:

- Brush
- Roller
- Conventional Air Spray
- Airless Spray

THINNING

Use only the recommended Zinc Galvanizing Thinner.

Method	Thinner Addition
Brush/Roller	Up to 5%
Air Spray	10–15%
Airless Spray	Up to 5%

Do not over-thin the material.

RECOMMENDED COATING SYSTEM

New Steel

1. RP-411 Zinc Galvanizing Paint – 1 to 2 coats
2. Optional Intermediate Coat
3. Suitable Top Coat (Epoxy / Polyurethane) where additional durability is required

Galvanized Repair

1. Surface Cleaning
2. RP-411 Zinc Galvanizing Paint – Spot Repair or Full Coat Application

CHEMICAL RESISTANCE

Exposure Medium	Resistance
Fresh Water	Excellent
Salt Water	Excellent
Humid Atmosphere	Excellent
Industrial Atmosphere	Excellent
Petroleum Oils	Good
Mild Acids	Good
Mild Alkalis	Good

STORAGE

Store in accordance with local regulations.

Storage Conditions

- Store in a cool, dry, and well-ventilated area.
- Keep containers tightly closed.
- Protect from direct sunlight.
- Keep away from heat, sparks, and open flames.

Shelf Life

12 months from the date of manufacture in unopened original containers.

PACKAGING

Available in:

- 20 Litre Containers
- 200 Litre Drums

Custom packaging available upon request.

HEALTH & SAFETY

- Use in well-ventilated areas only.
- Avoid inhalation of vapours and spray mist.
- Wear suitable gloves, goggles, and protective clothing.
- Avoid skin and eye contact.
- Keep away from ignition sources.
- Do not smoke during application.

First Aid

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush immediately with plenty of clean water and seek medical attention.

Inhalation: Move to fresh air and obtain medical advice if symptoms persist.

Refer to the Safety Data Sheet (SDS) before use.

QUALITY ASSURANCE

Manufactured under strict quality control procedures to ensure consistent performance, superior corrosion resistance, and long-term protection of steel structures exposed to aggressive industrial and marine environments.

Typical Benefits

- Equivalent sacrificial protection to galvanizing repairs
- High zinc purity (95%)
- Excellent corrosion resistance
- Fast drying
- Easy application
- Suitable for industrial, marine, automotive, and infrastructure projects
- Bright galvanized finish available



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THE FUTURE OF SURFACE PROTECTION

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