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

TECHNICAL DATA SHEET RP- 611

ZINC RICH PAINT (90 % zinc)

PRODUCT DESCRIPTION

Rudra Zinc Rich Paint – 90% Zinc is a two-component, high-performance epoxy zinc-rich protective coating formulated with a very high percentage of metallic zinc in the dry film.

The coating provides excellent corrosion protection to steel substrates through the **sacrificial protection mechanism of zinc**, where zinc preferentially corrodes and thereby protects the underlying steel.

The product offers excellent resistance to water, abrasion, alkalis and a wide range of corrosive industrial environments. It is suitable for use in demanding climatic and industrial conditions.

RECOMMENDED USE

Zinc Rich Paint – 90% Zinc is recommended for the long-term corrosion protection of properly prepared steel surfaces in applications such as:

- **Structural steel and fabrication**
- **Bridges, barrages and gates**
- **Pipelines and pipe structures**
- **Storage tanks**
- **Chemical and fertilizer plants**
- **Industrial structures**
- **Steel equipment and machinery**
- **Infrastructure exposed to corrosive environments**
- **Marine and heavy-duty industrial applications**

PRODUCT HIGHLIGHTS

- **90% metallic zinc in dry film**
- **Excellent corrosion resistance**
- **Provides sacrificial/cathodic protection to steel**
- **Excellent resistance to water and moisture**
- **Good resistance to abrasion**
- **Good resistance to acids, alkalis and corrosive chemicals**

- Suitable for severe industrial and atmospheric environments
- Excellent adhesion to properly prepared steel substrates
- Suitable as a protective primer in heavy-duty coating systems

FILM THICKNESS & THEORETICAL COVERAGE

Parameter	Typical Value
Recommended DFT per coat	50 ± 10 microns
Theoretical Coverage	To be confirmed based on actual solids
Recommended Application	Brush / Airless Spray

Note: Actual coverage will depend on surface profile, application method, wastage, film thickness and application conditions.

PHYSICAL PROPERTIES

Property	Typical Value
Colour	Zinc Grey / Grey
Finish	Matt / Zinc Rich
Type	Two-Component Epoxy
Zinc Content in Dry Film	90%
Mixing Ratio	4 : 1 by volume
Flash Point	To be confirmed
Viscosity	To be adjusted as per application requirement
Specific Gravity	To be confirmed
Volume Solids	To be confirmed

PERFORMANCE PARAMETERS

Test / Property	Typical Performance
Scratch Hardness	No exposure of metal substrate under specified test conditions
Conical Mandrel	No significant cracking or crazing
Adhesion	No peel-off under specified test conditions
Salt Spray Resistance	Good / Excellent, depending on system and surface preparation
Water Resistance	Excellent
Chemical Resistance	Good resistance to acids, alkalis and corrosive chemicals
Thermal Stability	Suitable for industrial temperature conditions

Performance results may vary depending on substrate preparation, film thickness, curing conditions and complete coating system.

SURFACE PREPARATION

All surfaces must be **clean, dry and free from oil, grease, dust, salts, rust, mill scale and other contaminants**.

For maximum performance, steel surfaces should preferably be abrasive blast cleaned to the specified standard and surface profile appropriate for the coating system.

Recommended preparation:

- **Remove oil, grease and other contaminants before blasting.**
- **Abrasive blast clean steel to the specified cleanliness standard.**
- **Remove all loose dust and abrasive residues.**
- **Ensure the prepared surface is dry before coating.**
- **Apply the coating as soon as practicable after surface preparation to prevent flash rusting.**

APPLICATION CONDITIONS

Parameter	Requirement
Substrate Temperature	Minimum 5°C above dew point
Relative Humidity	Maximum 85%*
Ventilation	Good ventilation required
Surface Condition	Clean and dry

Do not apply when condensation is likely to occur. During application and initial curing, the coating should be protected from rain, condensation and excessive humidity.

In confined areas, adequate ventilation must be provided to ensure proper drying and safe working conditions.

APPLICATION METHOD

Mixing

Stir the base component thoroughly until a uniform consistency is obtained.

Mix:

Base : Hardener =

4 : 1 by volume

Mix thoroughly until a homogeneous mixture is obtained.

Allow the mixed material to stand for approximately **30 minutes**, if required by the application system, before application.

Thinning

For brush or airless spray application, add suitable thinner only when necessary and as recommended by Rudra Paints.

Typical thinner addition may be **up to 5% by volume**, depending on application conditions and equipment.

Do not over-thin the product, as excessive thinning may reduce film thickness, zinc loading and protective performance.

POT LIFE

The mixed product should be used within approximately **6 hours at normal ambient conditions**.

Pot life will vary depending on temperature, humidity, quantity mixed and application conditions.

Do not use material after it has started to gel or significantly increase in viscosity.

DRYING TIME

Drying time depends on temperature, humidity, ventilation, film thickness and application conditions.

Typical drying times should be established for the final Rudra Paints formulation.

Substrate Temperature	-10° C	0° C	10° C	25° C	40° C
Surface Dry	6 h	5 h	4 h	3 h	2 h

Hard Dry : 24 hours
second coat : after 2 hours

STORAGE

Store the product in accordance with applicable national and local regulations.

- **Store in a cool, dry and well-ventilated area.**
- **Keep away from heat, sparks and sources of ignition.**
- **Keep containers tightly closed when not in use.**
- **Protect from direct sunlight and excessive temperatures.**
- **Do not allow containers to freeze or become overheated.**

HANDLING

Handle with care. Stir the base thoroughly before mixing with the hardener. Follow the recommended mixing ratio and application procedure.

Avoid unnecessary skin and eye contact.

PACKING

Available in:

20 L Pack – 16 L Base + 4 L Hardener

Other pack sizes may be available as per customer requirements.

HEALTH & SAFETY

Read and follow all precautionary information provided on the product container and Safety Data Sheet (SDS) before use.

- Use only in well-ventilated areas.
- Do not breathe vapour, spray or paint mist.
- Avoid prolonged skin contact.
- Wear suitable protective gloves, goggles and protective clothing.
- Keep away from heat, sparks and open flames.
- In case of skin contact, remove contaminated material and wash thoroughly with soap and water.
- In case of eye contact, flush immediately with plenty of clean water and seek medical attention.
- If inhaled and discomfort occurs, move the person to fresh air and obtain medical attention if required.



Mfg by **RUDRA ENTERPRISE**

Website: www.rudrapaint.com

E Mail:- rudrapaint@yahoo.com

THE FUTURE OF SURFACE PROTECTION

XXXXXXXXXX-----XXXXXXXXXX