

Website: www.rudrapaint.com
E Mail:- rudrapaint@yahoo.com

RUDRA PAINT



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

TECHNICAL DATA SHEET RP- 304

EPOXY MICACEOUS IRON OXIDE PRIMER

Product Description

Rudra Paint Epoxy Micaceous Iron Oxide Primer RP-304 is a two-component epoxy polyamide-based anti-corrosive primer formulated with **Micaceous Iron Oxide (MIO)** and **Zinc Phosphate** pigments. It provides outstanding protection against corrosion, moisture, alkalis, chemicals, and harsh atmospheric conditions. The coating forms a durable barrier that enhances the life of steel structures and is suitable for use in industrial, marine, and coastal environments.

Recommended Uses

Epoxy Micaceous Iron Oxide Primer RP-304 is specially designed for the protection of steel and concrete structures exposed to aggressive environments.

Suitable applications include:

- Bridges
- Industrial structures
- Storage tanks
- Pipelines
- Structural steel fabrication
- Fertilizer plants
- Chemical plants
- Refineries
- Marine structures
- Offshore equipment
- Gates and railings
- Castings
- Steamers
- Concrete walls and columns
- Coastal structures

Product Highlights

- Excellent corrosion resistance
- Excellent abrasion resistance
- Superior resistance to moisture and alkalis
- Resistant to acids and corrosive chemicals
- Excellent adhesion on properly prepared steel
- Durable matte finish
- Suitable for severe industrial and coastal environments
- Contains Zinc Phosphate and Micaceous Iron Oxide for enhanced barrier protection
- Can also be supplied as a Direct-to-Metal (DTM) coating upon request

Technical Specifications

Property	Specification
Product Type	Two Pack Epoxy Polyamide Primer
Pigmentation	Zinc Phosphate & Micaceous Iron Oxide
Finish	Matte
Colour	Grey
Mixing Ratio	4 : 1 (Base : Hardener)
Pot Life	Up to 6 Hours
Flash Point	Approximately 25°C
Application Method	Air Spray, Airless Spray, Brush, Roller or Dipping

Film Thickness & Coverage

Property	Value
Dry Film Thickness (DFT)	75–150 Microns per Coat
Theoretical Coverage	8–9 m²/Litre/Coat
Coverage	Depends upon surface profile and film thickness

Performance Characteristics

Test	Performance
Scratch Hardness	No Exposure of Metal Substrate
Conical Mandrel Bend	No Cracking or Crazing
Adhesion	Excellent – No Peel Off
Salt Spray Resistance	Excellent
Thermal Stability	Stable up to 200°C

Surface Preparation

Proper surface preparation is essential for optimum performance.

- Remove oil, grease, dust and contaminants.
- Remove rust, mill scale and loose particles.
- Abrasive blast cleaning is recommended to achieve near-white metal finish.
- Surface must be clean, dry and sound before application.

Surface Conditions During Application

- Relative Humidity: Maximum **50%**
- Ensure adequate ventilation during application and drying.
- Do not use heated air until solvents have completely evaporated.
- Avoid application during condensation or high humidity conditions.
- Protect freshly applied coating from moisture until fully cured.

Mixing Instructions

- Mix **4 Parts Base** with **1 Part Hardener** by volume.
- Stir both components thoroughly before mixing.
- Mix until a homogeneous consistency is achieved.
- Add recommended epoxy thinner only if required depending upon application method.

Pot Life

Use the mixed material within **6 hours** at 25°C.

Drying Time

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

Substrate Temperature	Surface Dry	Hard Dry
-10°C	6 Hours	24 Hours
0°C	5 Hours	24 Hours
10°C	4 Hours	24 Hours
25°C	3 Hours	24 Hours
40°C	2 Hours	24 Hours

Recoating Interval: Minimum **2 Hours** (depending on ambient conditions).

Storage

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

- Keep containers tightly closed when not in use.
- Store in accordance with local safety regulations.

Handling Precautions

- Stir well before use.
- Mix only the quantity that can be used within the pot life.
- Use appropriate personal protective equipment (PPE).
- Ensure adequate ventilation during application.

Packing

20 Litres (16 L Base + 4 L Hardener)

Other packing sizes can be supplied on request.

Health & Safety

- Use only in well-ventilated areas.
- Avoid inhalation of vapours or spray mist.
- Avoid contact with skin and eyes.
- Wear suitable gloves, goggles and protective clothing.
- In case of skin contact, wash immediately with soap and water.
- In case of eye contact, flush thoroughly with clean water and seek immediate medical attention.
- Keep out of reach of children.
- Refer to the Material Safety Data Sheet (MSDS) before use.



Mfg by **RUDRA ENTERPRISE**

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THE FUTURE OF SURFACE PROTECTION

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