

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-310

HIGH BUILD COALTAR EPOXY COATING CURED WITH POLYAMIDE

PRODUCT DESCRIPTION

COLTAR EPOXY RP-310 is a two-component, high-build coal tar epoxy coating ideally suited for the protection of concrete structures, steel, timber, and other construction materials exposed to corrosive environments. It provides excellent corrosion resistance for normal, offshore, and permanently immersed surfaces.

Advantages

- Excellent corrosion resistance
- Good adhesion and flexibility
- Excellent water resistance
- Excellent resistance to marine and saline atmospheres
- Suitable for fully submerged applications
- Easy to apply
- Resistant to fungal and microbial growth

Technical Specifications

Property	Specification
Colour	Black
Finish	Matt, Smooth
Dry Film Thickness (DFT)	350–400 microns
Volume Solids	85%
Theoretical Coverage	2.25 m ² /L at 400 µm DFT
Dry Temperature Resistance	Up to 125°C under immersion

Areas of Application

Recommended as an internal and external protective coating for concrete and steel structures such as:

- Tanks and piping (concrete and steel)
- Sheet piling
- Dams, barrage gates, and penstocks
- Crude oil storage tanks
- Ballast tanks
- Foundation walls and sumps
- Concrete and steel surfaces in sewage treatment plants
- Paper mills
- Chemical plants
- Underground structures
- Submerged structures

Physical Properties

Property	Specification
Mixing Ratio (A:B)	4:1 by volume
Thinner	Rudra Paint Epoxy Thinner RP-503
Mixed Density	1.45 kg/L
Pot Life	3 hours at 30°C
Full Cure Time	5 days at 30°C
Recoatability	Minimum: 12 hours; Maximum: 5 days at 30°C

Performance Data

Test	Standard	Result
Humidity Resistance	ASTM D2247	Passes 3000 hours
Salt Fog Resistance	ASTM B117	Passes 3000 hours
Hardness (Shore D)	ASTM D3363	60
Corrosion Resistance (Under Seawater Immersion, Accelerated Test)	Internal Test	Passes 3 months
Chemical Resistance (Toluene, Lubricating Oil, Water, Diesel, Methanol (100%), Aliphatic Hydrocarbons)	ASTM D543	Passes

Note: Test results were obtained using a two-coat system.

Shelf Life

12 months when stored in original, unopened containers under recommended storage conditions. Protect from direct sunlight.

Packaging

Available in:

- 20 Litres
- 200 Litres

Special packaging can be provided upon customer request.

Surface Preparation

Concrete

Light abrasive blasting or other suitable surface preparation methods are recommended to achieve optimum performance. Remove all dust using oil-free compressed air or a clean brush. Apply only to dry surfaces.

Steel

Steel surfaces to be coated with RUDRA PAINT RP-310 should be prepared by:

- Abrasive blast cleaning to Sa 2.5 standard, or
- Power tool/mechanical cleaning to St 3 standard.

If the prepared surface becomes contaminated by moisture or other contaminants, re-blasting is recommended. RUDRA PAINT RP-310 may also be applied over approved compatible primers.

Application Method

For best results, apply two coats of RUDRA PAINT RP-310 by brush, roller, or spray.

- Allow the first coat to become tack-free before applying the second coat.
- Apply the second coat within 5 days.
- If recoating after 5 days, wipe the first coat with a suitable solvent and allow it to dry before applying the second coat.

Mixing Instructions

1. Mix Component A and Component B separately.
2. If settling is observed, use a pneumatic stirrer to achieve uniform consistency.
3. Mix components in the specified ratio before application.
4. Use only Rudra Paint Epoxy Thinner RP-503 as recommended.
5. Clean all equipment using Rudra Paint Epoxy Thinner RP-503.

Spray Application Parameters

Airless Spray

Parameter	Specification
Nozzle Orifice	Approx. 0.021 in.
Nozzle Pressure	Approx. 170 bar (2500 psi)

Conventional Air Spray

Parameter	Specification
Nozzle Orifice	Approx. 1.5–3.0 mm
Nozzle Pressure	Approx. 3–4 bar (43–57 psi)

Environmental Conditions

Do not apply when:

- Ambient temperature is below 7°C.
- Relative humidity exceeds 90%.
- Surface temperature is less than 3°C above the dew point.

Condition	Range
Air Temperature	10–40°C
Surface Temperature	5–50°C

Drying and Curing Schedule (at 30°C)

Stage	Time
Surface Dry	2–3 hours
Hard Dry	24 hours
Full Cure	5 days

Thinner Consumption

Application Method	Thinner Requirement
Brush	5–10%
Roller	5–10%
Spray	15–20%

Health and Safety

For solvent-based coatings, ensure adequate ventilation during application, as solvent vapours may be harmful.

Always wear:

- Protective gloves
- Respiratory mask
- Safety goggles

For additional information, contact our Technical Services Department.

Special Notes

- Practical coverage may vary depending on surface profile, application technique, wastage, and site conditions.
- Thinner consumption may vary according to application conditions and equipment used.

Safety Instructions

Please refer to the Material Safety Data Sheet (MSDS) before use.



Mfg by **RUDRA ENTERPRISE**

Website: www.rudrapaint.com

E Mail:- rudrapaint@yahoo.com

THE FUTURE OF SURFACE PROTECTION

XXXXXXXXXX-----XXXXXXXXXX