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RUDRA PAINT



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

TECHNICAL DATA SHEET RP-105

ANTI BACTERIAL PAINTY (water based)

PRODUCT DESCRIPTION

RP-614 Anti-Bacterial Paint is a premium quality water-based acrylic coating specially formulated to provide a durable decorative finish while inhibiting the growth of bacteria, mould, mildew, and other microorganisms on painted surfaces. The coating offers excellent washability, low VOC emissions, low odour, and long-lasting protection for both interior and exterior applications.

The product is particularly suitable for environments where hygiene and cleanliness are critical, such as hospitals, clinics, schools, laboratories, kitchens, food processing areas, pharmaceutical units, hotels, and public buildings.

INTENDED USE

- Interior and exterior walls
- Ceilings
- Concrete surfaces
- Cement plaster
- Brick masonry
- Wood surfaces
- Gypsum boards
- Hospitals and healthcare facilities
- Kitchens and food preparation areas
- Schools and educational institutions
- Laboratories and pharmaceutical facilities
- Commercial and residential buildings

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Range
Product Type	Anti-Bacterial Water-Based Emulsion Paint
Binder / Resin Type	Acrylic Emulsion
Appearance	Matt / Low Sheen / Silky Matt / Semi-Gloss
Colour	White, Pastel Shades & Full Colour Range
Solids by Volume	35 – 50% ± 2%

Specific Gravity	1.20 – 1.50 g/cm ³
VOC Content	Low VOC (< 30–50 g/L)
Odour	Low Odour During Application and Drying
Diluent	Clean Water
Finish	Smooth Decorative Finish

PERFORMANCE PROPERTIES

Property	Typical Performance
Theoretical Coverage	8–12 m²/Litre/Coat*
Dry Film Thickness (DFT)	30–50 Microns per Coat
Wet Film Thickness (WFT)	80–130 Microns per Coat
Recommended Number of Coats	2 Coats Minimum
Touch Dry Time	30 Minutes – 2 Hours
Recoat Time	2–4 Hours
Hard Dry Time	12–24 Hours
Full Cure	Up to 48 Hours
Washability	Excellent
Rub Resistance	Good to Excellent
Water Resistance	Good
Humidity Resistance	Good
UV Resistance	Good
Colour Retention	Excellent

*Actual coverage may vary depending on substrate porosity, surface texture, and application method.

ANTI-BACTERIAL PERFORMANCE

RP-614 contains specially selected anti-microbial additives designed to inhibit the growth of common microorganisms on painted surfaces.

Effective Against:

- Staphylococcus aureus
- Escherichia coli (E. coli)
- Common bacteria
- Mould growth
- Mildew growth
- Fungal contamination

Benefits:

- Promotes hygienic surfaces
- Reduces bacterial growth
- Helps prevent mould and mildew formation
- Suitable for high-traffic public environments
- Supports cleaner indoor environments

SURFACE PREPARATION

All surfaces should be:

- Clean
- Dry
- Sound
- Free from dust
- Free from grease and oil
- Free from mould, algae, and loose particles

New Surfaces

- Allow cement plaster and concrete to cure completely.
- Remove loose particles and laitance.
- Apply a suitable water-based primer before painting.

Previously Painted Surfaces

- Remove loose or flaking paint.
- Sand glossy surfaces lightly.
- Repair cracks and surface defects using suitable fillers.
- Spot-prime repaired areas before application.

APPLICATION DATA

Item	Details
Surface Preparation	Clean, dry, and sound surface free from contaminants
Primer / Undercoat	Compatible Water-Based Primer Recommended
Thinning / Dilution	Ready to Use
Brush / Roller Dilution	Up to 5–10% Clean Water
Spray Application Dilution	Up to 30% Clean Water (if required)
Application Methods	Brush, Roller, Airless Spray
Recommended Temperature	Above 10–15°C
Relative Humidity	Below 85%
Application Conditions	Avoid direct sunlight and very cold substrates

APPLICATION PROCEDURE

Step 1 – Surface Preparation
Clean the surface thoroughly and repair any cracks, holes, or imperfections.

Step 2 – Priming
Apply one coat of suitable water-based primer and allow it to dry completely.

Step 3 – First Coat
Apply the first coat uniformly by brush, roller, or spray.

Step 4 – Drying
Allow 2–4 hours drying time before recoating.

Step 5 – Final Coat
Apply the second coat evenly to achieve the desired finish, colour uniformity, and anti-bacterial performance.

DRYING & CURING FACTORS

Drying and curing times may vary depending upon:

- Ambient temperature
- Relative humidity
- Film thickness
- Surface porosity
- Air circulation

Allow sufficient curing before washing, cleaning, or exposure to heavy traffic conditions.

PACKAGING & STORAGE

Item	Details
Packaging Sizes	20 Litre & 200 Litre Packs
Shelf Life	12 Months in Original Unopened Containers
Storage Temperature	5°C to 35°C
Storage Conditions	Store in a Cool, Dry, Well-Ventilated Area
Protection	Protect from Frost, Heat, and Direct Sunlight

SAFETY, HEALTH & ENVIRONMENT

- Contains anti-bacterial and biocidal additives.
- Avoid prolonged contact with skin and eyes.
- Use gloves, safety goggles, and protective clothing during application.
- Wear suitable respiratory protection when spraying.
- Ensure adequate ventilation during application and drying.
- Wash tools and equipment immediately after use with clean water.
- Do not discharge paint residues into drains or watercourses.
- Dispose of empty containers and waste material in accordance with local environmental regulations.

First Aid

Skin Contact: Wash thoroughly with soap and water.

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

Inhalation: Move the affected person to fresh air.

Ingestion: Seek immediate medical advice.

PRODUCT ADVANTAGES

- Anti-Bacterial Protection
- Low VOC Formulation
- Low Odour
- Excellent Washability
- Smooth Decorative Finish
- Easy Application
- Good Humidity Resistance
- Suitable for Healthcare Facilities
- Environmentally Friendly Water-Based Technology
- Durable Interior & Exterior Performance

QUALITY ASSURANCE

RP-614 Anti-Bacterial Paint is manufactured under stringent quality control procedures to ensure consistent product quality, long-lasting decorative appearance, and reliable anti-microbial performance for demanding hygienic environments.



Mfg by **RUDRA ENTERPRISE**

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THE FUTURE OF SURFACE PROTECTION

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