

RUDRA PAINT

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

TECHINICAL DATA SHEET _RP-102

FIRE RETARDANT COATING FOR CABLE

Physical Properties

Property	Specification
Color	Off-white
Viscosity	Approx. 30,000 mPa·s (thick flowing liquid)
Specific Gravity	1.1
pH Value	7.6
Solid Content	70%
Odor	Odorless
Limiting Oxygen Index	> 70
Recommended D.F.T.	2 mm dry film thickness
Coverage	3 kg/m ² at 2 mm D.F.T.
Storage Temperature	5°C to 30°C (Store in shade)
Shelf Life	11 months at room temperature
Minimum Packing Size	20/25 kg
Cleaning/Thinner	Water

Drying & Curing Time (at 25°C, 65% RH)

Stage	Time
Touch Dry	3 hours
Hard Dry	24 hours
Full Cure	7 days

Performance Characteristics		
Property	Test Method	Result
Fire Propagation	IEEE-383 Nil	Pass
Fire Survival	IEC-331/332/	Pass
Flexibility	IS 10810	No Cracking
Fire Test Building Materials & Structures	BS-476/PART-7&8	Pass
Limiting Oxygen Index (%)	As per IS : 10810 Tab. -9	Satisfactory
Vertical Spread of Fire Test Intumescent Fire Retardant -	IS : 12459-1988	Pass
Coating for Cable	IS : 17044-2018	Pass
Temperature Heating Test	IS : 3809-1979	1014 degree C, for 120 min.
Acid Resistance	5% HCl	No Effect
Alkali Resistance	5% NaOH	No Effect
Water Resistance	40°C, 7 days immersion	No Effect
Ampacity Impact	-----	No effect up to 2 mm D.F.T.

Surface Preparation

All surfaces must be clean, dry, and free from oil, grease, coal dust, or other contaminants. Clean cable trays thoroughly before applying RP-102.

Application Guidelines

- **Stirring:** Stir thoroughly before use. Add clean water if required depending on application method, then stir again.
- **Substrate Temperature:** Minimum 3°C above dew point.
- **Application Methods:**
 - **Brush** ○ **Airless Spray:**
 - Nozzle Orifice: 0.58 mm
 - Nozzle Pressure: 1400–1800 psi
- **Ventilation:** Ensure adequate ventilation, especially in confined spaces.
- **Equipment Cleaning:** Use clean water immediately after application. Flush spray equipment regularly during use to avoid blockages.

Health & Safety

- Ensure compliance with all local and national health, safety, and environmental regulations.
- Read and understand the Material Safety Data Sheet (MSDS) before use.
- Use appropriate PPE (gloves, goggles, face masks, etc.).
- Avoid contact with skin and eyes.
- Ensure proper ventilation during application and drying.
- Do not inhale spray mist or vapors.

Note: This is a water-thin able, solvent-based coating. Safety measures may vary depending on application method and work environment.

Additional Information

For more information on industry standards, abbreviations, or to obtain the MSDS, please contact our technical support team.

Let me know if you'd like this as a downloadable PDF or in another format.



Mfg by **RUDRA ENTERPRISE**

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Your Safety is Our Motto

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