SAMRAT POLY RESINS

Manufacturer of Coating & Composite Resins · Doraha, Ludhiana, Punjab, India

TECHNICAL DATA SHEET Doc. Ref: SPR-TDS-FRR · Rev. 01 · July 2026

FIRE RETARDANT RESIN

Halogenated Fire-Retardant Unsaturated Polyester Resin · UL 94 V0* · Low Smoke Emission

PRODUCT DESCRIPTION

Fire Retardant Resin is a specially formulated unsaturated polyester resin modified with halogenated fire-retardant additives to reduce flammability, limit smoke production and prevent flame spread. Rated to UL 94 V0*, it slows or prevents ignition and flame propagation and is engineered to reduce smoke density and toxic gas emissions, curing at room temperature into a rigid, heat-resistant polymer.

KEY FEATURES

- UL 94 V0 flammability rating*
- Halogenated fire-retardant formulation
- Reduced smoke density and toxic gas emission
- Room-temperature cure with MEKP catalyst
- Cures into a rigid, heat-resistant polymer

RECOMMENDED APPLICATIONS

- Automotive and railway components
- Marine and electrical applications
- FRP panels and building components
- Tunnels, infrastructure and fire-sensitive environments

TYPICAL TECHNICAL PROPERTIES

Base Resin	Unsaturated polyester
FR Type	Halogenated fire-retardant formulation
Flammability Rating	UL 94 V0 *
Physical Form	Liquid
Colour	White
Curing System	Room-temperature cure with MEKP catalyst
Smoke / Emission	Reduced smoke density and toxic gas emission
Viscosity	400 cPs
Gel Time	5.5 minutes
Styrene Content	35%
MEKP Dosage	MEKP 1.5% and Cobalt Octoate 0.4%
Specific Gravity / Density	Not Provided
Flash Point	Not Provided
Shelf Life	3 months
Storage Temperature	30–35 °C
Packaging	35 kg / 225 kg
Minimum Order Quantity	500 kg

*Fields marked "Not Provided" are pending confirmation with technical staff and will be issued in a revised sheet. No value is estimated or assumed. *UL 94 V0 rating as published by the manufacturer; test report/certification reference to be supplied on request and confirmed in the next revision.*

SAFETY & HANDLING

Follow standard industrial safety practices when handling this product, including appropriate personal protective equipment and adequate ventilation. Refer to the applicable Safety Data Sheet (SDS) where available.