SAMRAT POLY RESINS

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

TECHNICAL DATA SHEET Doc. Ref: SPR-TDS-OST · Rev. 01 · September 2026

OIL STORAGE TANK GRADE RESIN

SPR 301 OT · Isophthalic polyester resin for oil-storage-tank linings

PRODUCT DESCRIPTION

SPR 301 OT is an isophthalic polyester grade from the SPR 301 family with good electrical and heat-resistance properties, listed for the FRP lining of oil-storage tanks and for chemical-equipment manufacturing. It is supplied non-accelerated and cured with MEKP and cobalt octoate added separately during use.

KEY FEATURES

- Isophthalic grade for oil-storage-tank linings (SPR 301 OT)
- Good electrical and heat-resistance properties, per the catalogue
- Typical viscosity 300–600 cPs and gel time 15–35 minutes at 25 °C
- Supplied non-accelerated; MEKP and cobalt octoate added during use

LISTED APPLICATIONS

- FRP lining for oil-storage tanks
- Chemical-equipment manufacturing

TYPICAL SPECIFICATION

IDENTITY AND SUPPLY	
Catalogue Code	SPR 301 OT
Resin Chemistry	Isophthalic unsaturated polyester
Supply Condition	Non-accelerated
Colour / Appearance	Clear, pale-yellow to light-amber liquid
Manufactured At	Doraha, Ludhiana, Punjab, India
Packaging, MOQ and Shelf Life	Confirm with Samrat Poly Resins at the time of enquiry
TYPICAL LIQUID RESIN PROPERTIES	
Viscosity	300–600 cPs at 25 °C
Gel Time	15–35 minutes at 25 °C
Specific Gravity	1.04–1.14
Styrene Content	33–45% by weight
CURE SYSTEM	
Reference Cure System	MEKP 1.5% + Cobalt Octoate 0.4% — added separately during use

Values are typical values published by Samrat Poly Resins for this grade in the 2026 product catalogue. They describe the liquid resin at the stated reference condition and are not guaranteed limits or finished-component properties. Properties of a cured laminate, casting, compound or moulded part depend on the reinforcement, process and cure used, and must be established by the user.

GRADE SELECTION

SPR 301 OT is one grade in the Samrat Poly Resins range. Where the requirement is different from the applications listed above, these are the usual alternatives to review:

- Organic Solvent-Resistant Grade Resin (SPR 301 OS) — For organic-solvent storage linings, sewage pipes and effluent-treatment equipment.
- Vinyl Ester Resin (SPR 501 VE) — For more corrosive chemical service, or where the specification names vinyl ester.
- ISO Polyester Resin (SPR 301) — The general isophthalic grade, with published cured-resin data, for water and chemical-service laminates.

Share the finished part, the process and the service conditions with your enquiry so the right grade can be confirmed before a trial.

SAFETY & HANDLING

Handle with appropriate personal protective equipment and adequate ventilation. Unsaturated polyester resins contain styrene, which is flammable. Keep away from heat, sparks and open flame.

Never mix the peroxide catalyst directly with the cobalt accelerator. Add each separately into the resin — direct contact between the two can react violently.

Store the resin, initiators and accelerators separately, in original sealed containers, cool, shaded and away from heat and ignition sources. Request the current safety information for this grade from Samrat Poly Resins before handling.

Disclaimer: The information above is based on data published by the manufacturer at the time of issue and is believed accurate. Values shown are typical and are not to be interpreted as guaranteed specifications; properties may vary within normal manufacturing tolerances between batches. Users are responsible for determining suitability for their intended application and should confirm current specifications directly with Samrat Poly Resins prior to use.