



ISOPHTHALIC COOLING TOWER GRADE RESIN

SPR 301 CT · Thixotropic isophthalic grade

PRODUCT DESCRIPTION

SPR 301 CT is the thixotropic isophthalic grade of the SPR 301 family, described in the catalogue as having heat, chemical and corrosion resistance and high strength, and listed for cooling-tower and wind-energy composite components. It is supplied non-accelerated and thixotropic, with MEKP and cobalt octoate added separately during use.

KEY FEATURES

- Thixotropic isophthalic grade (SPR 301 CT)
- Heat, chemical and corrosion resistance and high strength, per the catalogue
- Typical thixotropic index 2.0–3.5; gel time 15–35 minutes at 25 °C
- Supplied non-accelerated and thixotropic

LISTED APPLICATIONS

- Cooling-tower composite components
- Wind-energy composite components

TYPICAL SPECIFICATION

IDENTITY AND SUPPLY	
Catalogue Code	SPR 301 CT
Resin Chemistry	Isophthalic unsaturated polyester
Supply Condition	Non-accelerated · thixotropic
Colour / Appearance	Cloudy to 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, 60 rpm	400–650 cPs
Viscosity, 6–12 rpm	1,500–2,000 cPs
Thixotropic Index	2.0–3.5
Gel Time	15–35 minutes at 25 °C
Specific Gravity	1.10–1.15
Styrene Content	37–45% 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 CT 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:

- Orthophthalic Cooling Tower Grade Resin (SPR 201 CTG) — The orthophthalic, thixotropic grade for sag-resistant lay-up where hot or chemical service is not part of the requirement.
- ISO Polyester Resin (SPR 301) — The general isophthalic grade, not thixotropic, with published cured-resin data.
- Vinyl Ester Resin (SPR 501 VE) — For more corrosive service or where vinyl ester is specified.

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.