



ROCK BOLT GRADE RESIN

SPR 301 RB · Isophthalic liquid base resin for rock-bolt anchoring compounds — not a finished capsule

PRODUCT DESCRIPTION

SPR 301 RB is a high-strength isophthalic liquid base resin with excellent mechanical properties, per the catalogue, used to manufacture rock-bolt anchoring compounds for mining reinforcement systems. It is the liquid resin supplied to the compound maker — not the finished mineral-filled mastic or capsule. It is supplied non-accelerated; the catalogue's reference cure system is BPO 7% with cobalt octoate at approximately 0.4%, added separately during use.

KEY FEATURES

- Isophthalic liquid base resin for rock-bolt anchoring compounds (SPR 301 RB)
- High strength and excellent mechanical properties, per the catalogue
- Gel-time range from ultra-fast (15 seconds–2 minutes) to delayed (5–30+ minutes) grades
- Reference cure system BPO 7% + cobalt octoate ~0.4%, added separately

LISTED APPLICATIONS

- Manufacture of rock-bolt anchoring compounds
- Mining reinforcement systems

TYPICAL SPECIFICATION

IDENTITY AND SUPPLY	
Catalogue Code	SPR 301 RB
Resin Chemistry	Isophthalic unsaturated polyester
Supplied Form	Liquid base resin for anchoring-compound manufacture
Supply Condition	Non-accelerated
Colour / Appearance	Viscous liquid resin
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	2,000–3,500 cPs
Gel Time	Ultra-fast grades 15 seconds–2 minutes · delayed grades 5–30+ minutes
Specific Gravity	Approximately 1.12
Styrene Content	35–39% by weight
CURE SYSTEM	
Reference Cure System	BPO 7% + Cobalt Octoate approximately 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 RB 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:

- ISO Polyester Resin (SPR 301) — The general isophthalic grade for laminates, with published cured-resin data.
- Polyester Putty Resin — A liquid base resin supplied to manufacturers of polyester putty and filler, rather than of anchoring compounds.
- Low-Viscosity Isophthalic Resin (SPR 301 LV) — A low-viscosity isophthalic grade designed for jute impregnation.

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 BPO initiator 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.