



ORTHOPHTHALIC FIRE-RETARDANT GELCOAT RESIN

SPR 201 FR-GC · Thixotropic fire-retardant gelcoat, SPR 201 family

PRODUCT DESCRIPTION

SPR 201 FR-GC is the fire-retardant gelcoat of the orthophthalic SPR 201 family: a thixotropic surface coat applied to the mould face before lay-up, listed for rail and metro composite components, automotive FRP components and as the surface gelcoat for fire-retardant FRP laminates. It is supplied non-accelerated and thixotropic, with MEKP added separately during use. No fire classification or test result is published for this grade.

KEY FEATURES

- Thixotropic fire-retardant gelcoat (SPR 201 FR-GC)
- Typical viscosity 5,000–11,000 cPs high shear, 30,000–45,000 cPs low shear
- Typical gel time 9–16 minutes at 25 °C
- Supplied non-accelerated; MEKP added during use

LISTED APPLICATIONS

- Rail and metro composite components
- Automotive FRP components
- Surface gelcoat for fire-retardant FRP laminates

TYPICAL SPECIFICATION

IDENTITY AND SUPPLY	
Catalogue Code	SPR 201 FR-GC
Resin Chemistry	Orthophthalic unsaturated polyester gelcoat, fire-retardant
Supply Condition	Non-accelerated · thixotropic
Colour / Appearance	Milky white to grey opaque liquid; custom-tinted variants where supplied
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, High Shear	5,000–11,000 cPs at 25 °C
Viscosity, Low Shear	30,000–45,000 cPs at 25 °C
Gel Time	9–16 minutes at 25 °C
Specific Gravity	1.35–1.55
Styrene Content	17–25% by weight
CURE SYSTEM	
Reference Cure System	MEKP 1.5–2.0% — added 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 201 FR-GC 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:

- Terephthalic Fire-Retardant Gelcoat (SPR 401 FRGC) — The terephthalic fire-retardant gelcoat, with a higher thixotropic index and its own specification.
- GP Gelcoat Resin (SPR 201 GC) — The general-purpose white gelcoat, where the part has no fire requirement.
- ISO Gelcoat (SPR 301 GC) — An isophthalic gelcoat for surfaces facing weathering and water contact.

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.