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

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

VINYL ESTER RESIN

Bisphenol-A Epoxy Vinyl Ester Resin · Chemical & Corrosion Resistance · Industrial Grade

PRODUCT DESCRIPTION

Vinyl Ester Resin is a high-performance Bisphenol-A based epoxy vinyl ester resin engineered for demanding industrial applications requiring exceptional chemical resistance, corrosion protection and mechanical strength. It offers excellent adhesion, superior toughness, thermal stability and resistance to water, acids, alkalis and solvents, with low shrinkage on cure and flexible curing methods from room temperature to 60–120 °C heat cure.

KEY FEATURES

- Exceptional chemical and corrosion resistance
- Superior toughness and thermal stability
- Resists water, acids, alkalis and solvents
- Low shrinkage on cure
- Flexible curing: room temp, heat, accelerator, post-cure

RECOMMENDED APPLICATIONS

- FRP tanks and chemical storage vessels
- Pipelines, ducts and scrubbers
- Cooling towers, pressure vessels, offshore structures
- Marine, pultrusion and filament winding

TYPICAL TECHNICAL PROPERTIES

Resin Type	Vinyl ester (Bisphenol-A based epoxy vinyl ester)
Grade	Industrial grade
Curing Methods	Room-temperature cure; heat cure 60–120 °C; MEKP catalyst; optional post-cure
Processing Methods	Hand lay-up, spray-up, filament winding, casting, pultrusion
Key Characteristics	Excellent chemical & corrosion resistance, superior toughness, high heat resistance, low shrinkage
Chemical Resistance	Excellent resistance to water, acids, alkalis & solvents
Viscosity	350 cPs (at 25 °C)
Gel Time	15–20 minutes (1.5% MEKP at 25 °C)
Styrene Content	40%
Catalyst / Dosage	MEKP 1.5%
Specific Gravity / Density	1.05 g/cm^3
HDT / Thermal Data	110 °C
Flash Point	32 °C (closed cup)
Shelf Life	6 months
Storage Temperature	Below 25 °C, store in a cool, dry place away from direct sunlight
Packaging	225 kg drum
Minimum Order Quantity	225 kg

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.