

SUPREME RESINS

D-7/7, MIDC PHASE I, DOMBIVLI (EAST)

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TECHNICAL DATA SHEET

VINYL ESTER RESIN - SPR 501

PRODUCT INFORMATION: Vinyl Ester Resin is a general purpose type resin used in the manufacture of fibreglass reinforced plastic components, and other applications where it is resistant to a broad range of acid base and salt solutions up to 100 Deg. C. Vinyl Ester Resin is normally supplied with promoter and to be catalysed with MEK catalysts. Where exposure to severe corrosive environments is to be encountered, post curing of laminates is strongly recommended.

APPLICATIONS: Vinyl Ester Resin is designed for use in hand laminating and spray up fabrication of tanks, fume ducts, piping, chemical process equipment, sewerage and industrial effluent treatment plant, FRP swimming pools, boats, chemical resistant floor toppings, and other applications where a requirement exists for resistance to corrosive environments.

Physical Properties

Appearance	Clear Straw Yellow Liquid
Specific gravity @ 30°C	1.07 ± 0.02
Acid Value, mgKOH/g	9 ± 2
Volatile content, % by wt.	45 ± 2
Viscosity @ 30°C Brookfield Viscometer, cPs	300 ± 50
Gel Time, minutes at 30°C 1.5 % v/w Promoter 1.5% v/w Cobalt Octoate (3% Co) 1.5% v/w MEKP (8% Active Oxygen)	8 ± 2
Peak Exotherm Temperature, °C	140 – 150

Properties of Cured Resins

Heat Deflection Temperature (HDT)	95°C
Water Absorption	0.25 %
Barcol Hardness	38
Total Volume Shrinkage	6 %
Flexural Strength	135 MPa
Flexural Modulus	3300 MPa
Elongation at Break	5%
Tensile Strength	80 MPa
Tensile Modulus	3200 MPa