

SUPREME RESINS

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

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TECHNICAL DATA SHEET TEREPHTHALATE RESIN - SPR 301

SPR 301 is a Terephthalate based Unsaturated Polyester Resin of medium reactivity .It has excellent wetting and has moderate chemical resistance It can be used for applications where you require higher mechanical strength It can be modified to have higher filler content so that it can be used for putty and filler application Common usage areas are in Automotive Parts, Machine Covers, Electrical Boxes, Amusement Park Equipments ,Cooling Towers Gratings Manhole cover plumbing putties car body putties and other general Applications.

SPR 301 has excellent mechanical properties. With its very good wetting characteristics, It gives good quality high gloss surfaces.

Physical Properties

Appearance	Clear Pale Yellow Liquid
Specific gravity @ 30°C	1.10 ± 0.01
Acid Value, mgKOH/g	25 ± 2
Volatile content, % by wt.	36 ± 2
Viscosity @ 30°C Brookfield Viscometer, cPs	325 ± 50
Gel Time, minutes at 30°C 1.0% v/w Cobalt Octoate (3% Co) 2.0% v/w MEKP (8% Active Oxygen)	8 ± 2
Peak Exotherm Temperature, °C	180 – 190

Properties of Cured Resins

Heat Deflection Temperature (HDT)	90°C
Water Absorption	0.25 %
Barcol Hardness	40
Total Volume Shrinkage	8 %
Flexural Strength	115 MPa
Flexural Modulus	3700 MPa
Elongation at Break	2%
Tensile Strength	60 MPa
Tensile Modulus	3400 MPa