

### Chemical / physical nature:

UP - 2000 is Chlorendic Anhydride (HET anhydride) based unsaturated polyester resin. The presence of 27% of the chlorine element in this resin will resist the spread of fire.

### Major application:

UP- 2000 can be used well in a variety of methods such as hand lay-up, pultrusion, filament winding and other forming techniques. In order to prevent the spread of fire, this resin is used to make the parts used in the construction and transportation.

### Stability:

Under the above mentioned storage condition the stability of UP - 2000 will be 4 month ex work.

### Storage:

UP - 2000 should be storage indoors in original Unopened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sunlight should be avoided.



### Technical information:

Specific	Amount	Unit	Standard
Solvent	Styrene		
Appearance	Clear		
Solid content	65+ 2	Percent	ISO 3251
Acid Value	Max: 25	mg KOH/g	ISO 2114
Viscosity of SMC,BMC resin	200-400	CPS	ISO 2555
Density	1.13+0.5%	g/cm3	ISO 1676
Gel time*	13 - 17	min	*
Exothermic Peak	160 - 180	°C	*
Exothermic time	15 - 30	minute	*

\* 100 gr resin UP - 2000 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

### Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	45 - 50	MPa	ISO 527
Elongation at break	3-4	Percent	ISO 527
Elongation at break	1.5 - 2	Percent	ISO 527
HOT	70 - 80	°C	ISO 75
Hardness	35 min	Barcol	ASTM D 2583

\*100 gr resin with cobalt octoate 1% metal : 1% and MEKP: 1% Post cure: 24 hour at room temperature and 2 hour at 80 °C.