

### Chemical / physical nature:

UP - 975 is an orthophthalic unsaturated polyester resin with medium viscosity, medium reactivity and mechanical properties. This resin has good UV resistance.

### Major application:

UP - 975 is intended for mastic resin in non-continuous systems. This resin has a high dilute ability by solvent and excellent powder absorption. The mastic produced from this resin has excellent and stable thixotropic properties. In order to cure the produced mastic, it is necessary to add about 0.1% amine (such as dimethyl aniline) and 1-2 % benzoyl peroxide paste.

### Stability:

Under the above mentioned storage condition the stability of UP - 975 will be 4 month ex work.

### Storage:

UP - 975 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	Viscous liquid		
Solid content	63+ 2	Percent	ISO 3251
Acid Value	Max: 45	mg KOH/g	ISO 2114
Viscosity of SMC,BMC resin	400-800	CPS	ISO 2555
Density	1.13 + 0.5%	g/cm3	ISO 1676
Gel time*	18 -20	min	*
Exothermic Peak	140 - 165	°C	*
Exothermic time	25- 35	minute	*

\* 100 gr resin UP - 975 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

### Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	60 - 85	MPa	ISO 527
Elongation at break	3-4	GPA	ISO 527
Elongation at break	3-7	Percent	ISO 527
HOT	50 + 2	°C	ISO 75
Hardness	30 min	Barcol	ASTM D 2583

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