

Chemical / physical nature:

UP - 473 is an Orthophthalic unsaturated polyester resin with moderate reactivity and consumer's required viscosity.

Major application:

The UP-473 polyester is an appropriate resin for mastics are used in stone factories and reinforcing decorative stones (marble and travertine stones). Also due to its high flexibility, this resin is invented sheet moulding compounds and other general fiberglass applications.

Stability:

Under the above mentioned storage condition the stability of UP - 473 will be 4 month ex work.

Storage:

UP - 473 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	63 + 2	Percent	ISO 3251
Acid Value	Max: 30	mg KOH/g	ISO 2114
Viscosity of SMC,BMC resin	300-700	CPS	ISO 2555
Density	1.13 + 0.5%	g/cm ³	ISO 1676
Gel time*	10 -20	min	*
Exothermic Peak	155 -175	°C	*
Exothermic time	20-40	Min	*

* 100 gr resin UP - 473 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	50 - 85	MPa	ISO 527
Tensile modulus	4-6	MPa	ISO 527
Elongation at break	3-4	Percent	ISO 527
HOT	50 + 2	°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.