

Chemical / physical nature:

UP- 231 is a resin based on Isophthalic acid and neopentyl glycol, modified by acrylic monomers with medium viscosity, high reactivity, and high resistance to weather conditions and UV.

Major application:

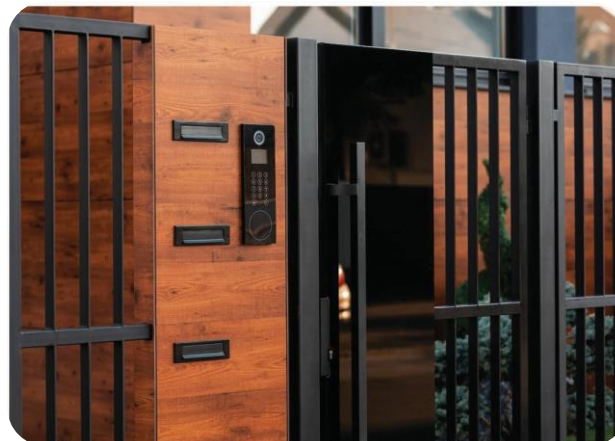
UP - 231 is intended for production of solid surface stones due to its chemical nature and high chemical and optical resistance.

Stability:

Under the above mentioned storage condition the stability of UP - 231 will be 4 month ex work.

Storage:

UP - 231 should be storage indoors in original Unopened and undamaged containers in a dry place between 5 to 25 degrees Celsius. Exposure to sunlight should be avoided



Technical information:

Specific	Amount	Unit	Standard
Solvent	Styrene & acrylic monomer		
Appearance	Clear		
Solid content	60 + 2	Percent	ISO 3251
Acid Value	Max20	mg KOH/g	ISO 2114
Viscosity of SMC,BMC resin	300-800	CPS	ISO 2555
Density	1.13 + 0.5%	g/cm3	ISO 1676
Gel time*	1 - 3	min	*
Exothermic Peak	170 - 190	°C	*
Exothermic time	20- 35	min	*

* 100 gr resin UP – 231 with 1-3 gr benzoyl peroxide, mold temperature: 100-150 °C

Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	70 - 90	MPa	ISO 527
Tensile modulus	3-4	MPa	ISO 527
Elongation at break	6-7	Percent	ISO 527
HOT	90 + 2	°C	ISO 75
Hardness	40 Min	Barcol	ASTM D 2583

*100 gr resin with 0.5 gr colorless cobalt 6% metal and 1 gr MEKP Post cure: 24 hour at room temperature and 2 hour at 80 °C