



Technical Data Sheet:

UP-60A

Product Name and Identification:

- Product Name: **UP-60A**
- Chemical name: **Orthophthalic Unsaturated Polyester Resin**

Product Description:

UP-60A is a superior unsaturated polyester resin based on phthalic acid. With its excellent mechanical properties and high transparency, it is ideal for manufacturing components, artificial stone, construction products, and pipes. Its optimal viscosity and strong wetting capability ensure easy handling and efficient impregnation. UP-60A offers reliable performance and durability in various applications, making it a versatile choice for a wide range of manufacturing needs.

Physical and Chemical Properties:

- 1. Viscosity:** 500-600 mPa.s
- 2. Percent Solids:** 62-65 %
- 3. Density at 20 °C:** 1.05-1.13 g/cm³
- 4. Acid Value (Solids):** <30 mg KOH/g
- 5. Color (gardener):** <2
- 6. Gel Time:** 5-10 minute
- 7. Curing time:** 10-15 minute
- 8. Peak Temperature:** <200 °C

Technical Performance:

Parameter	Result	Units	Test Method
Hardness (Barcol):	34 - 45	-	ASTM D2583
Tensile Strength:	60 - 70	Mpa	ISO 527-2
Elongation at Break:	3 - 4	%	ISO 527-2
Flexural Strength:	90 - 110	Mpa	ISO 178
Flexural Modulus:	2500 - 3000	Mpa	ISO 178
Heat Distortion Temperature:	65 - 75	°C	ISO 75-2
Water Absorption, 24 hrs.:	≤ 0.30	%	ISO 621958

Application and Use:

Artificial Stones

Sink

Bathtub

Sanitary parts

Stone Mastic

Curing Conditions: At a temperature of 25°C for every 100 grams of resin adding 1.44 grams (1% concentration) of cobalt accelerator and 2.2 grams of hardener (MEKP).

Packaging and Shelf Life:

Packaging Options: UP-60A is conveniently packaged in robust 200 kg metal barrels.

Shelf Life: Under optimal storage conditions, UP-60A exhibits a shelf life of 6 months.

