



UNSATURATED POLYESTER RESIN

General-Purpose Orthophthalic Unsaturated Polyester Resin · Industrial Grade · High Performance

PRODUCT DESCRIPTION

Unsaturated Polyester Resin is a premium-quality, orthophthalic-based general-purpose resin engineered for high-strength FRP manufacturing. It offers excellent glass fibre wet-out for superior reinforcement impregnation, good mechanical strength, good chemical resistance, and a high-gloss cured finish, with consistent batch-to-batch performance and compatibility with standard MEKP curing systems.

KEY FEATURES

- General-purpose orthophthalic unsaturated polyester resin
- Excellent glass fibre wet-out and impregnation
- Good mechanical strength, good chemical resistance
- High-gloss cured finish, easy processing
- Compatible with standard MEKP curing systems

RECOMMENDED APPLICATIONS

- Water tanks, cooling towers, roofing sheets
- Door skins and panel lamination
- Hand layup and spray-up processes
- General FRP moulding and composite fabrication

TYPICAL TECHNICAL PROPERTIES

Resin Type	Orthophthalic, unsaturated polyester
Curing System	Non-accelerated
Physical Form	Liquid
Colour / Appearance	Clear
Viscosity	350–450 cPs
Gel Time	< 8 minutes
Styrene Content	33–40%
Purity	99%
Cure Time	45 minutes – 1.5 hours
MEKP Dosage	1.5%
Cobalt Octoate Dosage	0.4%
Shelf Life	3 months (drum) / 2 months (PET packaging)
Storage Temperature	30–35°C
Packaging	225 kg drum
Minimum Order Quantity	1,000 kg

All values above are chemist-verified. Specific Gravity / Density, Thixotropy and Flash Point are not part of the standard specification set for this product and are intentionally excluded.

SAFETY & HANDLING

Follow standard industrial safety practices when handling this product, including appropriate personal protective equipment and adequate ventilation. Refer to the applicable Safety Data Sheet (SDS) where available.

Disclaimer: The information above is based on data published by the manufacturer at the time of issue and is believed accurate. Values shown are typical and are not to be interpreted as guaranteed specifications; properties may vary within normal manufacturing tolerances between batches. Users are responsible for determining suitability for their intended application and should confirm current specifications directly with Samrat Poly Resins prior to use.