



MEKP HARDENER

Methyl Ethyl Ketone Peroxide · Catalyst for Polyester & Vinyl Ester Resins · Industrial Grade

PRODUCT DESCRIPTION

Methyl Ethyl Ketone Peroxide (MEKP) is the catalyst used to initiate curing in unsaturated polyester resins, vinyl ester resins and gelcoats. Essential across composite applications such as FRP products, boat building, automotive parts and laminates, it decomposes on mixing to generate free radicals that start polymerisation — an exothermic reaction that hardens the resin.

KEY FEATURES

- Initiates curing of polyester and vinyl ester resins
- Generates free radicals for polymerisation
- Essential for gelcoats and laminates
- Standard catalyst for room-temperature cure
- Fast-curing initiator, high purity (98%)

RECOMMENDED APPLICATIONS

- Curing FRP products and laminates
- Boat building and automotive parts
- Gelcoat and casting work
- Composite manufacturing

TYPICAL TECHNICAL PROPERTIES

Product Type	Methyl Ethyl Ketone Peroxide (MEKP) — organic peroxide initiator
Grade	Industrial grade
Function	Room-temperature curing catalyst / initiator for unsaturated polyester and vinyl ester resin systems
Compatible Resins	Unsaturated polyester resins, vinyl ester resins, gelcoats
Key Characteristics	Fast-curing initiator, high purity, reliable polymerization, industrial grade
Purity	98%
Typical Dosage	1.0–2.0% (recommended: 1.5%)
Gel Time	10–20 minutes (at 25 °C with 1.5% dosage)
Appearance	Clear, colourless liquid
Specific Gravity / Density	1.17 g/cm ³ (at 25 °C)
Active Oxygen Content	9.0%
Flash Point	60 °C (closed cup)
Shelf Life	6 months (unopened)
Storage Temperature	10–25 °C, store in a cool, dry, well-ventilated place away from heat and direct sunlight
Packaging	25 kg carboy
Minimum Order Quantity	25 kg

SAFETY & HANDLING

MEKP is a hazardous organic peroxide: it is corrosive and can cause severe eye damage, including blindness, on contact. Always wear chemical splash goggles, gloves and protective clothing, and ensure adequate ventilation. Keep away from heat, sparks and open flame. **Never mix MEKP directly with cobalt accelerator or other promoters — always add each separately to the resin;** direct contact can cause violent decomposition. Store in original vented containers, away from accelerators, in a cool, shaded area. Refer to the Safety Data Sheet (SDS) before use.

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.