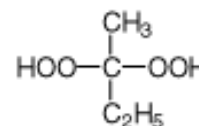


Technical Data Sheet

Polyester Curing Ketone peroxides (Ambient temperature)

CUROX[®] M-200

Methyl ethyl ketone peroxide
Liquid mixture, normal activity



Description:

Colourless, mobile liquid, consisting of peroxides based on methyl ethyl ketone, desensitised with phthalate plasticiser. This ketone peroxide is used mainly as an initiator (radical source) in the curing of unsaturated polyester and vinyl ester resins.

Technical Data:

Appearance colourless liquid
 Active oxygen 9.0% w/w min.
 De-sensitising agent phthalate plasticiser
 Density at 20°C ca. 1.15 g/cm³
 Viscosity at 20°C ca. 23 mPa.s
 Solubility Immiscible with water, soluble in phthalates
 Critical temperature (SADT) ca. 60°C
 Recommended storage temperature below 30°C
 Maintenance of activity at 25°C ca. 6 months
 Kick off temperature in non-accelerated UP resin ca. 70°C
 Supply Form 5 Kg polyethylene container

Application:

POLYESTER AND VINYL ESTER CURING: Curing agent for polyester and vinyl ester resins at ambient temperature in combination with cobalt accelerators. Dosage 1-3% as supplied, with 0.5-2% of a 1% cobalt solution. "Shelf life" (gel time of resin + peroxide) usually only a few hours depending on temperature and resin type. "Pot life" (gel time of resin + peroxide + accelerator) relatively short, but may be prolonged by adding inhibitor. Other grades include Curox M-100 & Curox M-300.

CURING PERFORMANCE: Moderate evolution of heat, therefore relatively tension-free curing; moderate mould release times. Low ambient temperatures retard complete curing considerably. Action: at low temperatures with polyester resins use Curox M-300; at low temperatures with vinyl ester resins use Curox M-100. Alternatively, amine accelerator may be added, although yellow-brown discolouration in finished parts may occur.

PROCESSING METHODS: Particularly hand lay-up, spray lay-up, centrifugal casting, filament winding, casting of resins, and surface coatings (putties, fillers, gelcoats and topcoats).

SPRAY EQUIPMENT: Use spray equipment in accordance with manufacturer's instructions. Ensure all safety devices are operational. Do not clear gun by spraying MEKP into the air.

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