Technical Data Sheet



CUROX® M-300

Methyl ethyl ketone peroxide CAS#1338-23-4 Liquid mixture

Formula

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	9.8% w/w min
De-sensitising agent	phthalate plasticiser
Density at 20°C	ca. 1.148 g/cm ³
Viscosity at 20°C	ca. 23 mPa.s
Miscibility	Immiscible with water, soluble in phthalates
Critical temperature (SADT)	ca. 60°C
Recommended storage temperature	below 30°C
Maintenance of activity at below 30°C	ca. 6 months
Kick off temperature in 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-200.

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Application

<u>CURING PERFORMANCE:</u> Moderate evolution of heat, therefore relatively tension-free curing: moderate mould release times. High ambient temperatures accelerate complete curing considerably. Action: at high temperatures with polyester resins use Curox M-200 or with vinyl ester resins use Curox M-100.

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.

Safety & Handling

The product should be stored in the closed supply container at temperatures **below +30°C**. Keep in a well-ventilated place. Keep away from ignition and heat sources (e.g. direct sun light). Keep separated from other dangerous and incompatible substances. Avoid contamination with e.g. rust, dust, ash (danger of decomposition).

Avoid contact with skin, eyes and clothing. At the end of work and before breaks, hands should be washed. Prophylactic skin protection recommended.

Use with adequate ventilation. Suction off product vapours at their point of generation. Avoid formation of aerosols. Do not breathe vapour/ aerosol. Wear suitable respiratory protection if necessary.

Peroxide residues must not be returned into the original container, danger of decomposition!

Disclaimer

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