

# MEKP Catalyst

## 1. DESCRIPTION

MEKP Catalyst is a standard methyl ethyl ketone peroxide used for the cure of unsaturated polyester resins at room temperatures in combination with a cobalt accelerator.

## 2. CHEMICAL STRUCTURE



## 3. APPLICATIONS

Applications of the MEKP Catalyst are:

- Hand lay-up
- Spray-up
- Centrifugal casting and filament winding
- Polyester concrete
- Gel coats

## 3. TYPICAL PROPERTIES

	MEKP Catalyst
Density at 20°C	1.065 g/ml
Refractive index at 20°C	1,4616
Viscosity at 20°C	31 mPas
Flash point (setpoint)	78°C
SADT (self-accelerating decomposition temp)	60°C

## 4. DOSEAGE

Typical concentrations for MEKP Catalyst run from 1 to 3% by weight based on resin and for cobalt accelerator from 0.25% to 4% based on 1% metal content solution. MEKP is recommended for the curing of ortho and isophthalic, Bisphenol-A or neopentyl-glycol resins at temperatures between 15 and 50°C.

A faster reaction and shorter demould times can be obtained by the addition of promoters such as dimethyl aniline or diethyl aceto acetamide to the cobalt accelerator.

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## 5. CURE PERFORMANCE

The factors to be considered selecting the optimum initiator/accelerator system are:

1. Process
2. Resin type
3. Required gel time or pot-life
4. Part thickness
5. Room temperature
6. Nature and quantity of additives
7. Dosage optimization between MEKP Catalyst and accelerator.

The table below shows the activities of the MEKP Catalyst:

Product	Gel Time	Cure Time	Peak Exotherm	Barcol Hardness after 7 hours
MEKP Catalyst	15 mins	34 mins	110°C	48-50

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