Technical Data Sheet

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CUROX®M-402R

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

Description

Red coloured, mobile liquid, consisting of peroxides based on methyl ethyl ketone, essentially desensitised with aliphatic ester. This ketone peroxide is used as an initiator (radical source) in the curing of unsaturated pol yester resins. Special advantages: Due to the red coloured peroxide an optimal homogenisation in the resin mixture is ensured. After the curing reaction the red colouration of the compound is no longer noticeable.
Main application: casting of buttons or centrifugal casting of button sheets at ambient temperature in combination with small amounts of cobalt accelerators.

Technical Data

Appearance	Red liquid
Active oxygen	Approx 9.9 % w/w
De-sensitising agent	Aliphatic ester
Density at 20°C	Approx. 1.04 g/cm^3
Viscosity at 20°C	Approx. 22 mPa.s
Refractive index at 20°C	1.434
Miscibility	immiscible with water, miscible with ester, UP/VE-resins
Critical temperature (SADT)	Approx. 60°C
Cold storage stability	Liguid to below -25°C
Recommended storage temperature	below 30°C
Maintenance of activity at 30°C as from date of delivery	6 months

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Application

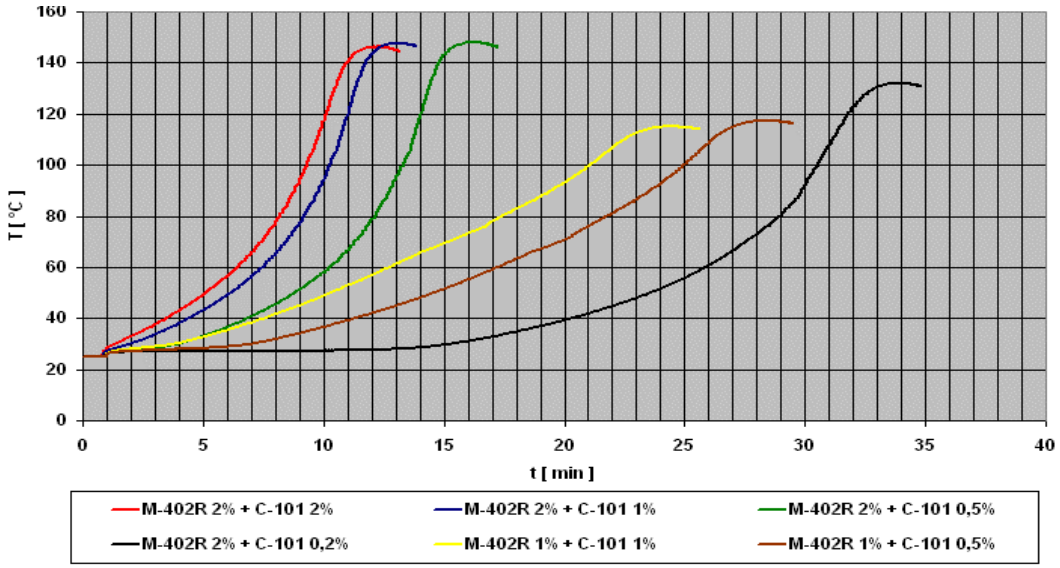
POLYESTER CURING:
Curing agent for all UP resin types at ambient temperature in combination with cobalt accelerators. Standard dosage level: 1-3% as supplied, with 0.2 — 2% of a 1% cobalt solution.
"Shelf life" (gel time of resin + peroxide) usually only a few hours, depending on temperature and resin type. "Pot life" (gel time of resin + peroxide + accelerator) very short, even with small quantities of accelerator.

CURING PERFORMANCE:
Moderate evolution of heat, therefore curing with low internal stress, relatively long mould release times.

PROCESSING METHODS:
Especially developed for short gel times even with low levels of cobalt.
Suitable for such processes as casting or centrifugal casting of UP buttons or button sheets and continuous impregnation of (corrugated) sheets.

Activity:

"Cobalt Curing" after DIN 16945 at 25°C with OPA resin (20g in a test tube)						
Formulation (parts by weight)						
Medium reactive resin type (OPA)	100	100	100	100	100	100
CUROX® M-402R	2	2	2	2	1	1
Accelerator C-101	2	1	0.5	0.2	1	0.5
Curing data						
Gel time t_{gel} [min]	1.5	2.0	4.0	15.5	4.0	7.0
Curing time t_{max} [min]	12.5	13.0	16.0	34.0	24.5	28.5
Peaktemperature T_{max} [°C]	145	147	147	132	115	116



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Standard Packaging

The standard package size of Curox® M-402R are 5 kg and 22,5 kg polyethylene bottles.

Disclaimer

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