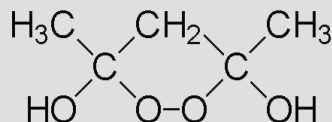


**CUROX® A-300**

## Technical Data Sheet - Thermosets - Ketone peroxides (Ambient temperature)



Chemical Name	Acetyl acetone peroxide
CAS-No.	37187-22-7
Properties	Liquid mixture

**Description**

Colourless, mobile liquid, consisting of peroxides based on acetyl acetone, essentially de-sensitised with diacetone alcohol. This ketone peroxide is used as an initiator (radical source) in the curing of unsaturated polyester resins. Main application: curing of thin-wall moulded parts at ambient temperature in combination with cobalt accelerators.

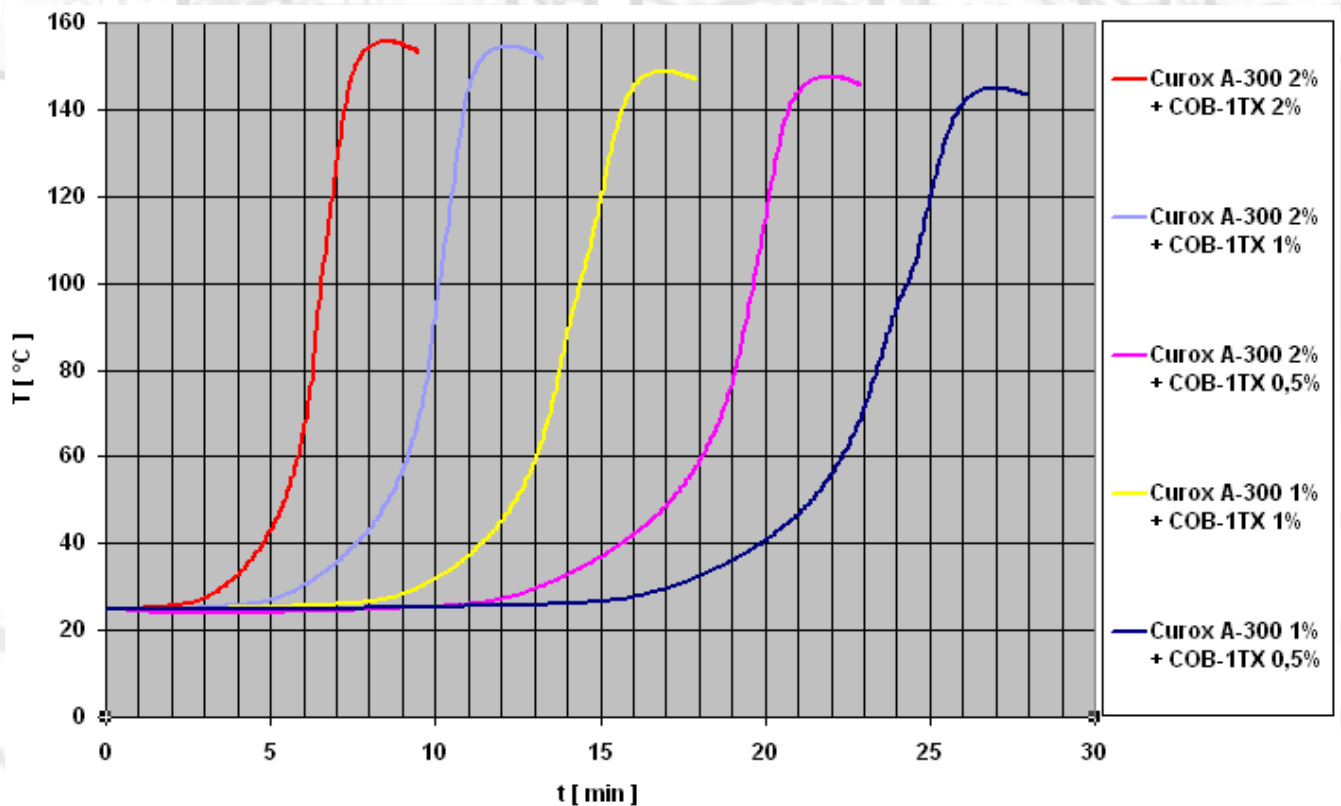
Technical Data	
Property	Characteristics / Value
Appearance	colourless liquid
Active oxygen	ca. 4.50 % w/w
De-sensitising agent	diacetone alcohol
Density at 20°C	ca. 1.06 g/cm <sup>3</sup>
Viscosity at 20°C	ca. 30 mPas
Refractive index at 20°C	ca. 1.434
Miscibility	miscible with alcohols, phthalates
Critical temperature (SADT)	ca. 60 °C
Recommended storage temperature	5 to 25 °C
Storage stability (activity) as from date of delivery	6 months

## CUROX® A-300

### Technical Data Sheet - Thermosets - Ketone peroxides (Ambient temperature)

#### Reactivity for the cold curing of polyester resins:

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® A-300	2	2	2	2	1	1
Accelerator COB-1TX	2	1	0.5	0.2	1	0.5
Curing data						
Gel time $t_{gel}$ [min]	3.5	6.0	13.0	37.0	9.5	17.0
Curing time $t_{max}$ [min]	8.5	12.5	22.0	54.0	17.0	27.0
Peaktemperature $T_{max}$ [°C]	155	154	148	131	148	144



**CUROX® A-300****Technical Data Sheet - Thermosets - Ketone peroxides (Ambient temperature)****Application - Polyester curing****- Usage level:**

Curing agent for all UP resin types at ambient temperature in combination with cobalt accelerators. Standard dosage level: 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 TC-510.

**- Curing characteristics:**

Strong evolution of heat, therefore short mould release times and very good mould release factors. Even at low ambient temperatures relatively rapid curing, especially in combination with Accelerator CA-12. Some fillers, pigments and stabilisers can disturb or even prevent the curing procedure. Occasionally, greenish or mottled discolouration can be observed in finished parts, post curing above 60°C may then be applied.

**- Processing methods:**

Suitable in particular for curing thin-wall moulded parts using various processes, such as hand lay-up, spray lay-up, vacuum and injection moulding, wet press moulding, centrifugal casting (pipes), continuous impregnating (corrugated sheets). Thus, the product is very versatile.

This information and all further technical advice – whether verbal, in writing, by way of trials - are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

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