



# CUROX<sup>®</sup> A-300

# Acetyl acetone peroxide CAS#37187-22-7 Liquid mixture

## Description

Colourless, mobile liquid, consisting of peroxides based on acetyl acetone, essentially desensitised with diacetone alcohol and glycols. 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				
Appearance	Colourless liquid			
Active oxygen	Approx 4.1 % w/w			
De-sensitising agent	Glycols, diacetone alcohol			
Density at 20°C	Approx. 1.1 g/cm3			
Viscosity at 20°C	Approx. 37 mPa.s			
Miscibility	Miscible with alcohols, phthalates			
Critical temperature (SADT)	>60°C			
Cold storage stability	Can crystallize below 10°C			
Recommended storage temperature	10 to 25°C			
Maintenance of activity at 25°C as from date of production	12 months			





## 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 0.5-2% of a 1% cobalt solution.

"Pot life" (gel time of resin + peroxide + accelerator) relatively short, but may be prolonged by adding Inhibitor TC-510.

#### **CURING PERFORMANCE:**

Strong evolution of heat, therefore short mould release times and very good mould release factors (fMR= tMR/tgel). 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.

This product is not recommended for gel- and topcoat applications.

#### **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 (RTM), wet press moulding, centrifugal casting (pipes), continuous impregnating (corrugated sheets). Thus, the product is very versatile.

## **Standard Packaking**

The standard package size of Curox® A-300 are 5 kg and 25 kg polyethylene bottles.

## Disclaimer

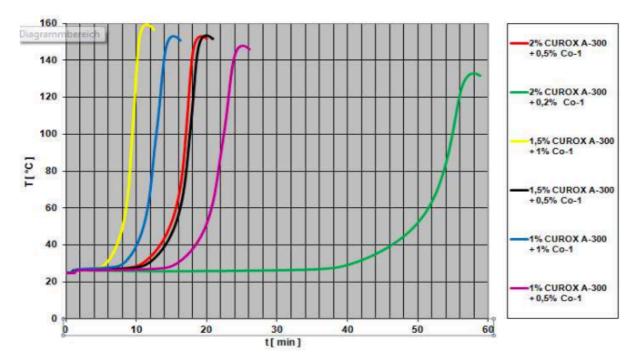
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### **Reactivity:**



Measurements in compliance with DIN 16945 at 25°C with OPA resin (20g in a test tube)									
Medium reactive resin type (OPA)		100	100	100	100	100	100		
CUROX <sup>®</sup> A-300	[Vol-%]	2.0	2.0	1.5	1.5	1.0	1.0		
Accelerator Co 1	[Vol-%]	0.5	0.2	1.0	0.5	1.0	0.5		
Curing data									
Gel time 25 -30°C tgel	[min]	11.0	41.0	5.5	11.5	8.0	15.5		
Gel time 25 -35°C tgel	[min]	12.5	44.0	6.5	13.0	9.5	17.5		
Curing time tmax	[min]	19.0	58.0	11.5	20.0	15.0	25.0		
Peaktemperature T <sub>max</sub>	[°C]	154	132	159	154	153	147		