



CUROX® M-303

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

Description

Colourless, mobile liquid, consisting of peroxides based on methylethylketone, essentially desensitised with phtalate plasticiser. This ketone peroxide is used as an initiator (radical source) in the curing of unsaturated polyester resins. Main application: gelcoats, curing of moulded, casted or winded glasfibre reinforced products at ambient temperature in combination with cobalt accelerators.

Technical data	
Appearance	Colourless liquid
Active oxygen	Approx 9.1 % w/w
Free hydrogenperoxide content	Approx. 1.7 % w/w
Water content	Approx. 1.5 % w/w
De-sensitising agent	Dimethylphthalate
Density at 20°C	Approx. 1.1 g/cm3
Viscosity at 20°C	Approx. 20 mPa.s
Miscibility	Miscible with alcohols, phthalates
Critical temperature (SADT)	Approx. 60°C
Cold storage stability	Below -20°C
Recommended storage temperature	0 - 30°C
Maintenance of activity at 30°C as from date of production	6 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.

Suitable also for gelcoats with improved osmosis resistance and lowest porosity due to low water- and hydrogenperoxide content.

"Pot life" (gel time of resin + peroxide + accelerator) relatively short, but may be prolonged by adding Inhibitors, such as tert.butyl catechol.

CURING PERFORMANCE:

Moderate evolution of heat. Relatively long mould release time, moderate mould release factors. Temperatures below 20°C prolong curing times considerably, alternatively cobalt / amine accelerators should then be used.

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.

Further information on suitable curing agents for unsaturated polyester resins is given in our application brochures on this subject

Standard Packaking

The standard package size of Curox®M-303 are 5 kg and 25 kg polyethylene bottles.

Disclaimer

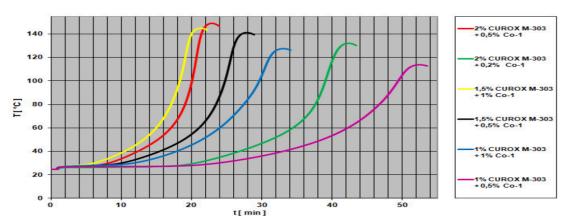
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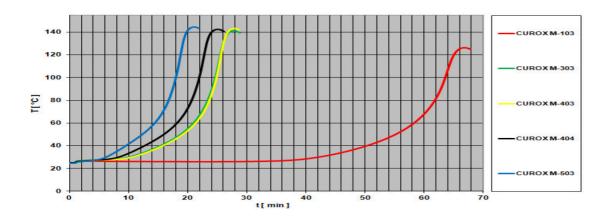




Activity:



Measurements in compliance with DIN 16945 at 25 ℃ with OPA resin (20g in a test tube)									
Medium reactive resin type (OPA)		100	100	100	100	100	100		
CUROX® M-303	[Vol-%]	2.0	2.0	1.5	1.5	1.0	1.0		
BÜFA® Accelerator Co 1	[Vol-%]	0.5	0.2	1.0	0.5	1.0	0.5		
Curing data									
Gel time 25 -30 ℃ t _{gel}	[min]	8.0	20.5	6.0	10.0	11.5	23.5		
Gel time 25 -35 ℃ t _{gel}	[min]	10.5	24.0	8.5	13.0	15.5	29.0		
Curing time t _{max}	[min]	23.0	42.5	21.0	28.0	33.0	53.0		
Peaktemperature T _{max}	[℃]	149	132	145	141	127	114		



Measurements in compliance with DIN 16945 at 25 ℃ with OPA resin (20g in a test tube)									
Medium reactive resin type (O	PA)	100	100	100	100	100			
CUROX® M-103	[Vol-%]	1.5							
CUROX® M-303	[Vol-%]		1.5						
CUROX® M-403	[Vol-%]			1.5					
CUROX® M-404	[Vol-%]				1.5				
CUROX® M-503	[Vol-%]					1.5			
BÜFA® Accelerator Co 1	[Vol-%]	0.5	0.5	0.5	0.5	0.5			
Curing data									
Gel time 25 - 30 °C t _{gel}	[min]	42.0	10.0	10.5	8.5	6.0			
Gel time 25 - 35 °C t _{gel}	[min]	47.0	13.0	13.5	11.0	8.0			
Curing time t _{max}	[min]	66.5	28.0	28.0	25.0	21.0			
Peaktemperature T _{max}	[°C]	127	141	143	143	145			