



Methyl ethyl ketone peroxide CAS#1338-23-4 Clear liquid

Structural Formula

Description

Colourless, mobile liquid, consisting of peroxides based on methyl ethyl ketone peroxide, essentially phlegmatized with dimethyl phthalate. This ketone peroxide is used as a radical initiator in the curing of unsaturated polyester resins in combination with cobalt accelerators.

Technical Data

Appearance	clear liquid
Desensitising agent	dimethyl phthalate
Active oxygen (AO)	ca. 9.7 % w/w
Hydrogen peroxide	ca. 1.7 % w/w
Water	ca. 1.5 % w/w
Density at 20 °C	ca. 1.1 g/cm ³
Viscosity at 20 °C	ca. 20 mPa·s
Flash point	> 80 °C
Critical temperature (SADT)	ca. 60 °C
Cold storage stability	below -10 °C
Recommended storage temperature	0 °C to 30 °C 🗢
Storage stability as from date of delivery	6 months

Standard Packaging

5 kg and 25 kg in HDPE canisters



Application

POLYESTER CURING:

Curing agent for all UP-resin types at ambient temperature in combination with cobalt accelerators.

Standard dosage level: 1 - 3 % with 0.5 - 2 % of a 1 % cobalt solution "Pot life" (gel time of resin + peroxide + accelerator) is relatively short compared to standard MEKP's but can be prolonged by adding Inhibitor TC 510.

CURING PERFORMANCE:

- Moderate evolution of heat
- Relatively short mould release time
- Higher reactivity in the MEKP-product range

Temperatures below 20 °C prolong curing times considerably. Cobalt / amine accelerators or blends with acetylacetone peroxide should then be used.

PROCESSING METHODS:

Particularly hand lay-up, spray lay-up, centrifugal casting, filament winding, casting of resins, limited for gelcoats

Decomposition Products

Possible detectable decomposition products: methyl ethyl ketone, acetic acid, ethane

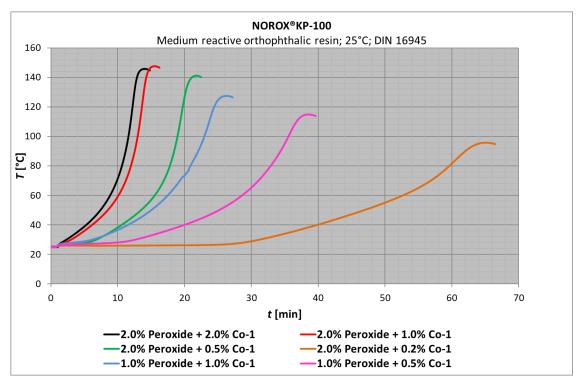
Storage

Avoid any source of heat, light, humidity and protect the product from impurities. Keep within save temperature limits.

Technical Data Sheet (TDS) NOROX®KP-100 Thermoset (TS)



Measurements



Formulation (parts per weight)									
Resin		100	100	100	100	100	100		
NOROX [®] KP-100	[Vol-%]	2.0	2.0	2.0	2.0	1.0	1.0		
Co-1	[Vol-%]	2.0	1.0	0.5	0.2	1.0	0.5		
Curing Data									
Gel time 25 - 30 °C t _{gel}	[min]	2.3	3.1	6.8	31.2	6.2	12.7		
Gel time 25 - 35 °C t _{gel}	[min]	3.9	4.7	8.9	35.8	9.2	16.6		
Curing time t _{max}	[min]	14	15.5	21.7	65.1	26.3	38.5		
Peak temperature T _{max}	[°C]	145	147	141	95	128	114		

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