

ANDONOX KPM-50

DESCRIPTION

ANDONOX KPM-50 is a mixture of ketone peroxides with dimethyl phthalate as a phlegmatiser. ANDONOX KPM-50 is an initiator for the curing of most polyester resins at both room- and elevated temperatures.

TYPICAL PROPERTIES

Active oxygen content:	6.6 ± 0.1 %
Appearance:	Slightly yellow and clear liquid
Density at 20°C:	1.10 – 1.13 g/cm ³
Viscosity at 20°C:	14 - 23 mPa.s
Flash point (Seta Flash):	> 65°C
Soluble in:	Oxygenated organic solvents
Practically insoluble in:	Water
SADT:	55°C
Storage temperature:	Max 25°C and Min -10°C

APPLICATION

ANDONOX KPM-50 is an extremely effective initiator for an accelerated cure with a normal gel time in most resin systems. The advantage when using ANDONOX KPM-50 is that it gives a much faster cure with a higher exotherm peak than MEKPs as ANDONOX KP-9.

ANDONOX KPM-50 is suitable for the curing of resins when fast curing and a short demoulding time are required or as an alternative to an AAP when the high exotherm of the AAP can give problems with cracks or internal stress.

ANDONOX KPM-50 is well suited for singly promoted resins using cobalt promotion alone. The dosage of ANDONOX KPM-50 depends on various factors such as; resin reactivity, accelerator type and amount, process temperature and production process. We recommend a dosage level of 1-3% by resin weight and a workshop temperature not lower than 15°C. Small amounts of an inhibitor could be used to get longer gel time but in general high inhibitor levels are usually not desirable, some quaternary ammonium salts can cause yellowing of the resin.

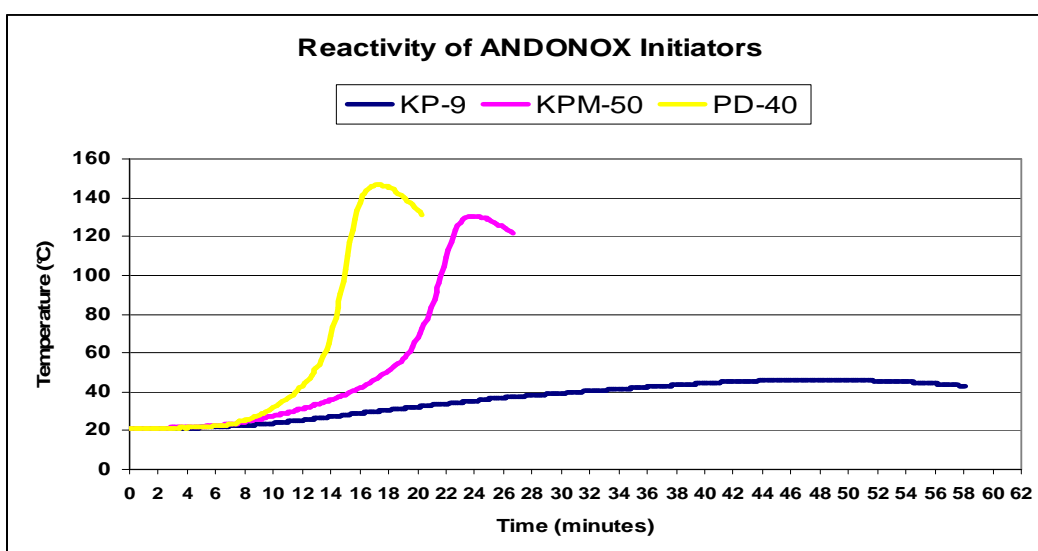
Performance of ANDONOX KPM-50 in relation to a standard MEKP and an AAP is the same at both room- and elevated temperature. ANDONOX KPM-50 is not recommended for gelcoats or hot cure systems.

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CURE CHARACTERISTICS

A reactivity test with an unsaturated polyester resin gave the following results:

Resin:	Orthophthalic polyester	Temperature:	21°C
Initiator %:	1.0	Accelerator %:	1% (1% cobalt)
Initiator	Gel time min	Time to peak min	Peak exotherm temp °C
ANDONOX KPM-50	8	24	131
ANDONOX KP-9	11	48	47
ANDONOX PD-40	8	17	147



PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of Andonox KPM-50 are 5 kg and 25 kg polyethylene bottles.
- ANDONOX KPM-50 is available pre-dyed in 25kg bottles. Please see Syrgis Performance Initiators TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific Andonox KPM-50 Safety Data Sheet (SDS) under section 14 & 15, shipping & regulatory information. **NOTE:** SDS's for all Syrgis Performance Initiators may be requested by contacting the company.
- ANDONOX KPM-50 is available through a global network. Call Syrgis Performance Initiators for the name of the distributor in your area.

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