

ANDONOX MCP-99

DESCRIPTION

ANDONOX MCP-99 is a peroxide mixture based on Methyl ethyl ketone in phlegmatiser.
ANDONOX MCP-99 is a liquid polymerisation initiator for the room temperature cure of unsaturated polyester with the following advantages/properties:

- Very low peak exotherm temperature
- Gel time close to standard MEKP
- Excellent final cure – both in thin and thick laminates
- Low impurity levels (water, MEK, salts)
- Less shrinkage and stress problems

TYPICAL PROPERTIES

Active oxygen content:	9.1 – 9.5 %
Appearance:	Pale yellow liquid
Density at 20°C:	1.09 – 1.13 g/cm ³
Viscosity at 20°C:	9 - 15 mPa.s
Flash point (Seta closed cup):	> 65°C
SADT:	60°C
Soluble in:	Oxygenated organic solvents
Insoluble in:	Water
Storage temperature:	Max 25°C

APPLICATION

ANDONOX MCP-99 has a flat and low exotherm curve which ends up in a good 24h cure. This curing behaviour reduces stress, cracking and shrinkage problems in laminates & castings. Less shrinkage also means less fibre print through of gelcoated surfaces. The gel time is similar or slightly slower compared to standard MEKP products. ANDONOX MCP-99 can be used when you want to build up thick laminates in one step, or if the laminate has big variations in thickness, or when you have high resin loadings. Typical applications are vacuum bag moulding of big units, filament winding of pipes & tanks with thicker laminates or polyester concrete systems with high resin-to-filler ratio.

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CURE CHARACTERISTICS

Test: Reactivity, Barcol analysis and Residual Styrene in laminates

Resin: DCPD modified, pre-accelerated polyester.

Temp: 23°C

Initiator	Dosage. %	Laminate thickness mm	Gel time min	Time to peak min	Peak °C	Barcol Hardness 934	
						4h	24h
ANDONOX MCP-99	2,0	5	28	53	31	18	35
ANDONOX MCP-99	2,0	10	28	50	52	14	37
ANDONOX KP-9	1,5	5	25	48	37	15	26
ANDONOX KP-9	1,5	10	25	43	89	34	36

Residual styrene analysis

Initiator	Dosage. %	Laminate thickness mm	RS 4h %	RS 24h %
ANDONOX MCP-99	2,0	1,5	4,5	2,1
ANDONOX MCP-99	1,0	12	2,1	1,2
ANDONOX KP-9	2,0	1,5	3,6	2,1
ANDONOX KP-9	1,0	12	3,1	2,6

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of ANDONOX MCP-99 are 5 kg and 25 kg polyethylene bottles.
- ANDONOX MCP-99 is available pre-dyed in 25kg bottles. Please see Syrgis Performance Initiators TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific ANDONOX MCP-99 Safety Data Sheet (SDS) under section 14 & 15, shipping & regulatory information. **NOTE:** SDS's for all Syrgis Performance Initiators products may be requested by contacting the company.
- ANDONOX MCP-99 is available through a global distributor network. Call Syrgis Performance Initiators for the name of the distributor in your area.

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