

NOROX[®]MCP-75

Methyl ethyl ketone peroxide; Cumylhydroperoxide
CAS#1338-23-4; 80-15-9
Liquid mixture

Description

NOROX[®]MCP-75 is a solution of Methyl ethyl ketone peroxides and Cumyl hydroperoxide in phlegmatizer. NOROX[®]MCP-75 is a liquid polymerization initiator for the room temperature cure of unsaturated polyester and vinyl ester resins with the following advantages/properties:

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

Technical Data

Appearance	Pale yellow liquid
Active oxygen	8.7 – 9.0%
Density at 20 °C	1.09 – 1.13 g/cm ³
Flash point (Seta closed cup)	> 65 °C (149 °F)
Critical temperature (SADT)	60 °C (140 °F)
Soluble in	Oxygenated organic solvents
Slightly soluble in	Water
Recommended storage temperature	Max 30 °C.
Maintenance of activity at 30 °C as from date of delivery	6 months

Application

NOROX[®]MCP-75 has a flat and low exotherm curve which ends up in a good 24 hour cure. This curing behavior reduces stress, cracking and shrinkage problems in laminates & castings. Less shrinkage also means less fibre print through of gelcoated surfaces. The gel time and cure time is slower compared to standard MEKP products. NOROX[®]MCP-75 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 and tanks with thicker laminates or polyester concrete systems with high resin-to-filler ratio.

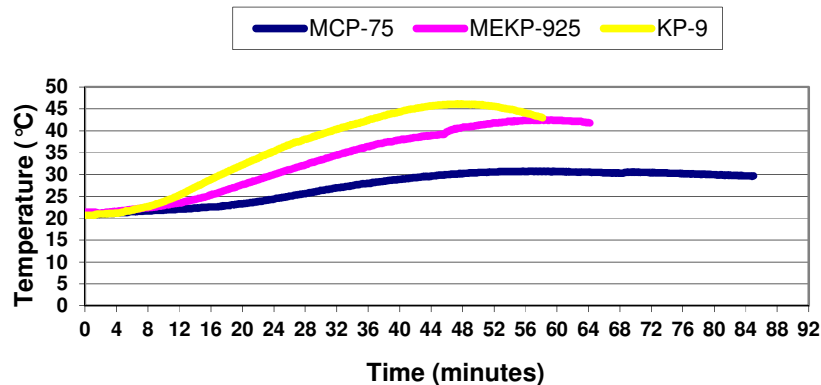
Measurements

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
NOROX®MCP-75	22	69	31
NOROX®KP-9	11	48	47
NOROX®KP-925	15	59	43

Reactivity of NOROX® Initiators:



Standard Packaging

The standard package sizes of NOROX®MCP-75 are 5 kg (8 lb) and 25 kg (40 lb) polyethylene bottles.

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

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