

NOROX® MCP-21

Methyl ethyl ketone peroxide/Cumyl Hydroperoxide
CAS#37187-22-7
80-15-9
Liquid mixture

Description

Norox® MCP-21 is a solution of methyl ethyl ketone peroxides and cumyl hydroperoxide in phlegmatizer. Norox® MCP-21 is a liquid polymerization initiator for the room temperature cure of specialized unsaturated polyester and vinyl ester resins with the following advantages/properties.

- Low Peak exotherm
- Longer working time (gel time)
- Excellent final cure
- Eliminates in-plant mixing of peroxides
- Low impurity levels (water, hydrogen peroxide, MEK)

Technical Data

| | |
|--------------------------|-----------------------------|
| Active oxygen | 9.0 max |
| Form: | Liquid |
| Color: | Pale Yellow |
| Specific Gravity @ 25°C: | 1.10 |
| Flash point (SETA C.C.) | 150°F/66°C, min. |
| Soluble in: | Oxygenated organic solvents |
| Slightly soluble in: | Water |

Application

Norox® MCP-21 is an excellent liquid polymerization initiator for the room temperature cure of unsaturated polyester and vinyl ester resins, when a low peak exotherm is desired. Gel times will be slower compared to standard Norox MEKP products (i.e. MEKP-9, -925, etc.), but final cured resin hardness is often better than for resins initiated with standard MEKP's.

RESIN: Marine Laminating (pre-promoted)*

| Initiator | Gel Time | Peak Exotherm | Barcol Hardness @ | | |
|---------------|-----------|---------------|-------------------|----------|----------|
| | | | 3 hrs. | 5 hrs. | 24 hrs. |
| Norox® MEKP-9 | 13.1 min. | 349°F | 55-60(5) | 65-70(5) | 10-15(4) |
| Norox® MCP | 40.1 min. | 290°F | 0-5 (D) | 50-55(D) | 20-25(4) |
| Norox® MCP-21 | 35.6 min. | 296°F | 0-5 (D) | 45-50(D) | 20-25(4) |
| Norox® MCP-75 | 29.7 min. | 313°F | 5-10(D) | 55-60(D) | 15-20(4) |

Results determined by United laboratory test methods and are to be used for comparison, only.

Resin suppliers should be contacted for specific recommendations for individual resins.

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of NOROX[®] MCP-21 are 4x8 lb and 44 lb (20 kg) polyethylene bottles.
- NOROX[®] MCP-21 is available pre-dyed in 44 lb (20kg) bottles. Please see United Initiators, Inc. TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific NOROX[®] MCP-21 Safety Data Sheet (SDS) under section 14 & 15, shipping & regulatory information. **NOTE:** SDS's for all United Initiators, Inc. products may be requested by contacting the company.
- NOROX[®] MCP-21 is available through a global network. Call United Initiators, Inc. for the name of the distributor in your area

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