

NOROX[®] HDP-75

Methyl ethyl ketone peroxide/Cumyl Hydroperoxide

CAS#1338-23-4

80-15-9

Liquid mixture

Description

Norox[®] HDP-75 is a solution of methyl ethyl ketone peroxides and cumyl hydroperoxide in phlegmatizer. Norox[®] HDP-75 is a liquid polymerization initiator for the room temperature cure of specialized unsaturated polyester and vinyl ester resins with the following advantages/properties.

- Lower peak exotherm than standard high dimer products
- Longer working time (gel time)
- Eliminates the “leading edge” effect common in other peroxides for VRTM applications
- Faster green strength than other CHP blends
- Excellent final cure
- Eliminates in-plant mixing of peroxides

Reduced foaming potential and gas evolution with vinyl esters used with infusion processes.

Technical Data

Active oxygen	9.0 max
Form:	Liquid
Color:	Pale yellow
Specific Gravity @ 25°C:	1.09
Flash point (C.O.C.):	200°F/93°C, min
Flash point (SETA C.C.)	150°F/66°C, min.
Soluble in:	Oxygenated organic solvents
Slightly soluble in:	Water

Application

Norox[®] HDP-75 is an excellent liquid polymerization initiator for unsaturated polyester and vinyl ester resins, when a lower peak exotherm is desired. Gel times will be slower compared to standard Norox MEKP products (i.e. MEKP-925, -925H, etc.), but final cured resin hardness is often better than for resins initiated with standard MEKP's. Reduces or eliminates the thickening leading edge affect common in high monomer products. Designed for thinner cross sections when exotherm control is needed along with fast demold times. HDP-75 fills the niche between MEKP-925H and MCP-75.

RESIN: Vacuum Infusion (pre-promoted)*

Initiator	Gel Time	Peak Exotherm	Barcol Hardness @		
			4 hrs.	5 hrs.	24 hrs.
Norox® MEKP-925H	17.2 min.	388°F	45-50(5)	45-50(5)	10-15(4)
Norox® HDP-75	31.5 min.	364°F	25-30(D)	35-40(D)	15-20(4)
Norox® MCP-75	31.9 min.	341°F	10-15(D)	15-20(D)	15-20(4)

*Results determined by United SPI 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® HDP-75 are 4x8 lb and 44 lb (20 kg) polyethylene bottles.
- NOROX® HDP-75 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® HDP-75 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® HDP-75 is available through a global network. Call United Initiators, Inc. for the name of the distributor in your area

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