

NORPOL PEROXIDE 1

DESCRIPTION

NORPOL PEROXIDE 1 is a Methyl Ethyl Ketone peroxide in phlegmatizer for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

APPLICATION

NORPOL PEROXIDE 1 is a general purpose MEKP and gives consistent room temperature curing of unsaturated polyester resins and gelcoat/topcoats.

A reliable product of remarkable purity, NORPOL PEROXIDE 1 assures quality in almost every system. Suitable applications are hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polymer concrete and vacuum infusion.

Using a standard type of pre-accelerated POLYLITE Polyester resin 1-1.5% NORPOL PEROXIDE 1 is normally added and for NORPOL Gelcoat/Topcoat 1.5-2%.

Gel time and rate of curing are specified in the technical data sheet for the relevant POLYLITE® Polyester resin and NORPOL Gelcoats/topcoats.

PRODUCT DATA

Active oxygen	:	9.1 ± 0.1 %
Free hydrogen peroxide	:	1.7 ± 0.1 %
Flash point (seta flash)	:	> 80°C
Water content	:	1.5 %
Supplied as	:	Liquid
Colour	:	Clear, colourless
Specific weight at 23°C	:	1.10-1.13
Colour	:	Water-white
Viscosity at 23°C	:	19-22 mPa's (cP)
pH	:	4-7
SADT	:	65°C
Solubility	:	Insoluble in water. Soluble in oxygenated organic solvents.
Storage stability	:	12 months

PACKAGING

Standard packing sizes are 5 kg and 25 kg net weight.

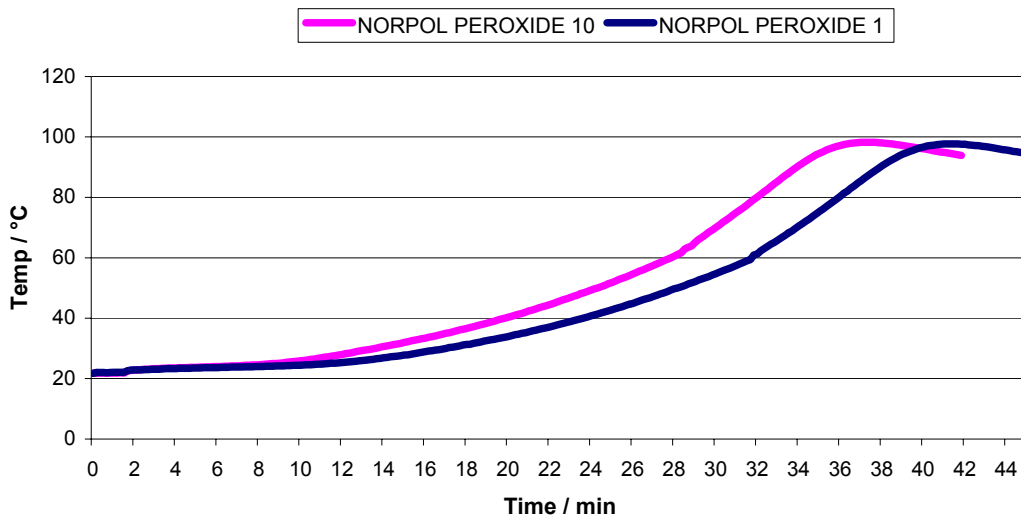
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CURE CHARACTERISTICS

Resin: : POLYLITE 440-000 Resin temp: 23°C
 Acc.conc. : 1% ACCELERATOR 9802P
 PER.1 : 1%

Initiator	Gel time min	Gel to Peak min	Peak Exotherm °C
NORPOL PEROXIDE 1	13,8	27,7	98
NORPOL PEROXIDE 10	10,5	26,7	98

Peak exotherm curves of NORPOL PEROXIDE MEKPs.



STORAGE

- Storage at 25 °C or below is recommended. Storage below 20 °C is recommended for maximum shelf life.
- Store in original containers away from flammables and all sources of heat, sparks, or flames; out of direct sunlight; and away from promoters, accelerators, reducing agents and strong acids or bases.
- Leaking containers – Remove and isolate in safe area. Re-package or dispose (see later section) immediately.
- Never store in refrigerators containing food and/or beverages.

HANDLING

- Inform all personnel of procedures for safe handling and review SDS with them.
- Remove from storage area only the amount needed for one shift.
- Wear safety glasses or goggles and chemical resistant gloves.
- Keep away from heat, flames, and sparks.
- Avoid breathing vapours.
- Never add peroxides directly to promoters or vice-versa, violent decomposition can occur
- Prevent contamination such as contact with dust, over-spray, wood, and combustible material. Never allow contact with metal of any type except 304 or 316 stainless steel or equivalent.

FIRST AID

- EYES – Flush immediately with large amounts of fresh water and continue washing for at least 15 minutes. Medical attention is needed.
- SKIN – Wash with soap and water.
- INGESTION – Administer large amounts of milk or water and call a physician immediately for lavage. Do not induce vomiting.

SPILLS

- Clean up immediately by absorbing with inert material – vermiculite, perlite or sand.
- After absorbing, moderately wet immediately with water and place in a clean plastic bag lined, plastic pail.
- Dispose of immediately in accordance with local, state, and federal regulations. NOTE: Spilled peroxides, if not immediately cleaned up, can become contaminated and ignite or decompose in a vigorous manner.

FIRE

- This peroxide is hard to ignite, but burn vigorously with acceleration.
- Use water from a safe distance – preferably with a water-fog nozzle.
- For very small fires, an extinguisher with carbon dioxide, foam, or dry chemicals may be effective.
- In case of a fire in or near a storage area, cool stored containers with water spray.