

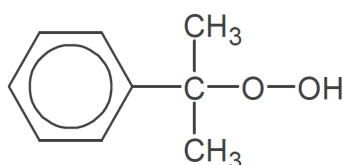
PEROXAN CU-40 M

Hydroperoxide / Curing

Description

Cumyl hydroperoxide
44%, Solution in promotor

PEROXAN CU-40 M is used for the curing of unsaturated polyester resins and vinyl ester resins.



CAS No.:

80-15-9

Technical data

Appearance:

clear liquid

Active oxygen assay:

appx. 4.6%

Density at 20°C:

1.03 g/cm³

Solubility

Insoluble in water, soluble in various organic solvents

Storage

Maximum storage temperature (Ts max):

30°C

Minimum storage temperature (Ts min):

0°C

Storage stability as from date of delivery:

6 months

Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Safety characteristics

Flash point:

>SADT°C

SADT:

80°C

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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Application

PEROXAN CU-40 M is used for the curing of vinylester resins in combination with cobalt accelerator.

PEROXAN CU-40 M can successfully be used instead of generally applied ketone peroxides like PEROXAN ME-50 LA with the following features:

- No "gassing" after the peroxide is mixed in the preaccelerated vinylester resin. This phenomenon is very often recognized as a disadvantage of the ketone peroxides in vinylester resins.
- The use of an amine accelerator is in general not necessary to achieve a good cure.
- A fast cure in thin coatings and laminates up to a thickness of approx. 6 mm
- A low peak exotherm in thick laminates

Depending on working conditions, the following peroxide and accelerator dosage levels are recommended:

PEROXAN CU-40 M: 2,0 to 3,0 phr
PERGAQUICK C12 X (Cobalt, 1%): 0,5 to 3,0 phr

Packaging

25kg container

Major decomposition products

2-Phenylisopropanol, acetophenone, Methane,

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN CU-40 M. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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