

NOROX®P-20

tert. Butylperbenzoate
CAS#614-45-9
Liquid mixture, high activity

Structural Formula

Description

Slightly yellowish, mobile liquid, consisting of a mixture based on tert.butyl perbenzoate. This product is used in combination with cobalt accelerators as an initiator (radical source) in the curing of unsaturated polyester resins at elevated temperature (60-120 °C), as well as for vinyl ester resins at ambient temperature.

Technical Data

Appearance	slightly yellowish, mobile liquid
Active oxygen	ca. 6.6 % w/w
De-sensitising agent	none
Density at 20 °C	ca. 1.03 g/cm ³
Viscosity at 20 °C	ca. 4 mPa•s
Refractive index at 20 °C	ca. 1.490
Miscibility	immiscible with water miscible with alcohols, phthalates
Critical temperature (SADT)	ca. 55 °C
Cold storage stability	freezing point below 0 °C
Kick-off temperature	ca. 90 °C
Recommended storage temperature	10 to 30 °C
Maintenance of activity	6 months

This product is in compliance with the Ele ktroG (EU-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Application

POLYESTER CURING:

Curing agent for UP resins in combination with cobalt or cobalt/amine accelerators. At elevated temperatures (60-120 °C) particularly suitable for resin types based on ortho- or iso-phthalic acid. Usage level: 1-2% as supplied, together with 0.5-1% Accelerator C-101. Together with Accelerator CA-12 curing of vinyl ester resins at ambient temperature is possible.

"Shelf life" (gel time of resin + peroxide) several weeks or months at ambient temperature, depending on resin type. Sensitive to some fillers and pigments as well as to heavy metal salts or tertiary aromatic amines. "Pot life" (gel time of resin + peroxide + accelerator) in UP resin normally 1-2 days.

CURING CHARACTERISTICS:

In combination with cobalt accelerators relatively rapid curing of UP resins at above 60 °C. Strong heat development. Special advantage: Excellent degree of cure can be achieved.

PROCESSING METHODS:

Especially developed for curing VE-resins at ambient temperature in combination with Accelerator CA-12. Even suitable at above 80 °C for casting of highly-filled resins (e.g. UP marble), and impregnating of wire windings (dripping process).

Packaging

The standard packaging of NOROX®P-20 is 25 kg.

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.

Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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