

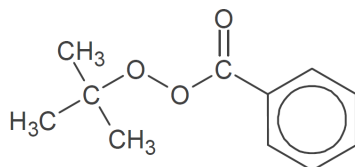
PEROXAN PB M-20

Peroxyester / Curing

Description

tert-Butyl peroxybenzoate
80%, Solution in promotor

PEROXAN PB M-20 is used for the curing of unsaturated polyester resins.



CAS No.:

614-45-9

Technical data

Appearance:

clear, colourless or light yellow liquid

Active oxygen assay:

appx. 6.59%

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 to prevent freezing

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:

48°C

SADT:

60°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 PB M-20 is used for the curing of unsaturated polyester resins in combination with a cobalt accelerator e.g. PERGAQUICK C100 in the temperature range of 60°C and higher.

PEROXAN PB M-20 plus a cobalt accelerator can effectively be used as a replacement for PEROXAN PO in those areas where the use of PEROXAN PO is restricted by official transport and storage temperature of max. 20°C.

Applications areas for the cure system PEROXAN PB M-20 plus a cobalt accelerator can be e.g. artificial marble, polymer concrete, etc.

The combination PEROXAN PB M-20 plus a cobalt amine accelerator e.g. PERGAQUICK C24 AX is very suitable for the ambient temperature cure of vinylester resins. PEROXAN PB M-20 gives a much faster cure in these resins than the commonly applied PEROXAN ME-50 LA 3 X or PEROXAN CU-40 M.

Depending on application and working conditions, the following peroxide and when applicable cobalt accelerator dosage levels are recommended:

PEROXAN PB M-20: 1,0 to 2,0 phr
PERGAQUICK C100: 0,1 to 0,5 phr

Packaging

25kg container

Major decomposition products

Acetone, Benzoic acid, Benzene, Carbon dioxide, , Methane, tert-Butanol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PB M-20. 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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