

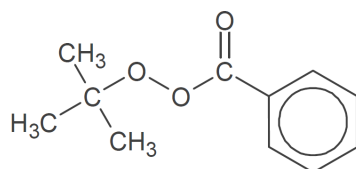
# PEROXAN PB-50 A

## Peroxyester / Curing

### Description

Mixture of tert-Butyl peroxybenzoate and Acetylacetone peroxide  
Solution in diacetone alcohol

PEROXAN PB-50 A 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. 4.85%**

Density at 20°C:

**1.05 g/cm<sup>3</sup>**

### 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:

**66°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-50 A is used for the curing of unsaturated polyester resins in combination with a cobalt accelerator e.g. PERGAQUICK C12 X at ambient and elevated temperatures.

Applications areas for the cure system PEROXAN PB-50 A plus a cobalt accelerator can be e.g. continuous laminating, resin transfer moulding and filament winding.

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

PEROXAN PB-50 A: 1,0 to 2,0 phr  
PERGAQUICK C12 X (Cobalt, 1%): 0,1 to 1,0 phr

### Packaging

**25kg container**

### Major decomposition products

**Acetone, acetylacetone, Benzoic acid, Benzene, benzene, Carbon dioxide, Methane, mixture of aliphatic acids, tert-Butanol, Water**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PB-50 A. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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