

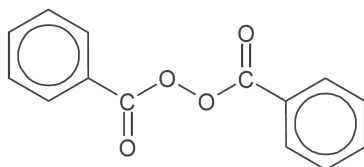
# PEROXAN BP-40 WS

## Diacyl peroxides / Curing

### Description

Dibenzoylperoxide  
40%, Suspension in water

PEROXAN BP-40 WS is used for the curing of unsaturated polyester resins at ambient temperature in combination with amine accelerators.



Molecular weight: **242.2**  
CAS No.: **94-36-0**

### Technical data

Appearance: **white suspension**  
Peroxide assay: **appx. 40%**  
Active oxygen assay: **appx. 2.64%**  
Density at 20°C: **1.1 g/cm<sup>3</sup>**

### Solubility

Insoluble in water

### Storage

Maximum storage temperature (Ts max): **25°C**  
Minimum storage temperature (Ts min): **5°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: **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 BP-40 WS is used for the curing of unsaturated polyester resins at ambient temperature in combination with a tertiary amine accelerator.

PEROXAN BP-40 WS is easy to handle, easy to disperse and dissolves quickly in unsaturated polyester. Moreover PEROXAN BP-40 WS is suitable for continuous metering using automatic dosing equipment.

The curing system PEROXAN BP-40 WS in combination with an amine accelerator shows a very fast cure that is hardly influenced by humidity and fillers. Even at low temperatures a relatively good cure will be obtained. A disadvantage may be the yellow colour and poor light resistance of the moulded product.

For ambient temperature curing the following amine accelerators are available to adjust the gel time and speed of cure of the cure system based on PEROXAN BP-40 WS:

PERGAQUICK A100 (N,N-Dimethyl-p-toluidine) for short gel times

PERGAQUICK A150 PM (N,N-Di-(Ethoxylates of p-toluidine) for short to medium gel times

PERGAQUICK A200 (N,N-Dimethylaniline) for medium gel times

PERGAQUICK A300 (N,N-Diethylaniline) for long gel times

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

PEROXAN BP-40 WS: 2 to 5 phr

Amine accelerator: 0,05 to 0,5 phr

\* PEROXAN BP-40 WS is a low viscosity suspension and may separate slightly on standing. Please stir immediately prior to use.

### Packaging

**25kg container**

### Major decomposition products

**Benzoic acid, Benzene, , Carbon dioxide**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BP-40 WS. 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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