

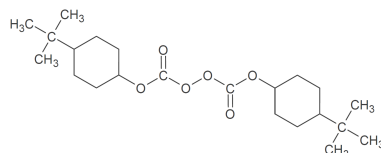
# PEROXAN BCC-40 W

## Peroxydicarbonate / Curing

### Description

Di-(4-tert-butyl-cyclohexyl)-peroxydicarbonate  
40%, Suspension in water

PEROXAN BCC-40 W is used for the curing of highly filled methacrylic resins, typically in combination with other peroxides of different reactivity.



Molecular weight: **398.5**  
CAS No.: **15520-11-3**

### Technical data

Appearance: **white suspension**  
Peroxide assay: **appx. 40%**  
Active oxygen assay: **appx. 1.6%**  
Density at 10°C: **1 g/cm<sup>3</sup>**

### Storage

Maximum storage temperature (Ts max): **20°C**  
Minimum storage temperature (Ts min): **5°C**  
Storage stability as from date of delivery: **3 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.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

### Safety characteristics

SADT:	40°C	SADT in IBC:	40°C
Emergency temperature:	35°C	Emergency temperature in IBC:	35°C
Control temperature:	30°C	Control temperature in IBC:	30°C

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

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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### Application

PEROXAN BCC-40 W is used for the curing of highly filled methacrylic resins, typically in combination with other curing agents of different reactivity, e.g. PEROXAN LP and PEROXAN PB.

PEROXAN BCC-40 W shows a high reactivity at elevated temperature, which is demonstrated by its low activation temperature, in combination with a relatively long pot life at ambient temperatures.

PEROXAN BCC-40 W is used in combination with a low reactive peroxide to ensure a good final cure. These peroxide combinations can successfully be used for those applications where a long gel time is required at room temperature in combination with a fast cure at elevated temperatures of 60°C to 140°C.

Applications areas can be cure-in-place-pipe (CIPP), pultrusion, filament winding, manufacturing of artificial marble.

Depending on working conditions, the following dosage level is recommended:

PEROXAN BCC-40 W as such: 2,0 to 4,0 phr

PEROXAN BCC-40 W as kicker peroxide: 1,0 to 2,0 phr

### Packaging

**25kg container**

**900kg IBC**

Bulk delivery of PEROXAN BCC-40 W in a 1,00 m<sup>3</sup> plastic intermediate bulk container (IBC) is possible in a number of countries.

### Major decomposition products

**4-tert-Butylcyclohexanol, Carbon dioxide**

### Safety and handling

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