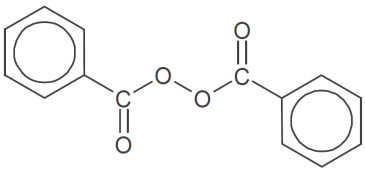
PEROXAN BP-Paste 50 PF 1

Diacyl peroxides / Curing

Description

Dibenzoylperoxide
50%, Paste with stabilizing agent

PEROXAN BP-Paste 50 PF 1 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 paste**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 3.3%**
Density at 20°C:	**1.17 g/cm³**

Solubility

Insoluble in water

Storage

Maximum storage temperature (Ts max):	**30°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:	50°C

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

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com

PEROXAN BP-Paste 50 PF 1

Diacyl peroxides / Curing

Application

PEROXAN BP-Paste 50 PF 1 is a paste without phthalate used for the curing of unsaturated polyester resins at ambient temperature in combination with a tertiary amine accelerator.

PEROXAN BP-Paste 50 PF 1 has been developped for the curing of putties, e.g. for car repair kits.

PEROXAN BP-Paste 50 PF 1 shows excellent chemical and physical stability.

The rheological behaviour of PEROXAN BP-Paste 50 PF 1 is that of a thixotropic long paste with a tendency of tailing.

The curing system PEROXAN BP-Paste 50 PF 1 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-Paste 50 PF 1:

PERGAQUICK A100 (N,N-Dimethyl-p-toluidine) for short gel times
PERGAQUICK A150 PM (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-Paste 50 PF 1: 2 to 5 phr
Amine accelerator: 0,05 to 0,5 phr

Packaging

25kg pail
225kg steel drum

Major decomposition products

Benzoic acid, Benzene, , diphenyl, Carbon dioxide, phenyl benzoate

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BP-Paste 50 PF 1. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

PERGAN The Peroxide Company
Schlavenhorst 71
D-46395 Bocholt
Germany
Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com