

BENOX[®] L40LV

Dibenzoyl Peroxide Liquid Dispersion

DESCRIPTION

BENOX[®] L40LV is a low viscosity, sprayable dispersion of dibenzoyl peroxide. BENOX[®] L40LV is specifically designed for use in "curing" unsaturated polyester and vinyl ester resins and offers the following advantages:

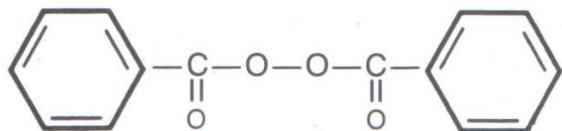
- Low water content
- Faster gel to peak than MEKP systems
- Less "packing" in spray equipment designed/modified for spraying dibenzoyl peroxide dispersions
- More stable and less separation than the common BPO dispersions on the market
- Less viscosity drift

BENOX[®] L40LV is also an excellent initiator for acrylic resins, for example road marking paints.

PRODUCT DATA

Dibenzoyl Peroxide:	40 %
Active Oxygen content:	2.64 %
Water Content:	12 %
Color:	White
Specific Gravity @ 25°C:	1.2
Viscosity (Brookfield HBT #4 spindle 50 rpm 25°C)	~1000 cps
Storage temperature:	Max 25°C and Min 0°C

STRUCTURAL FORMULA



Molecular Weight : 242.2
Empirical Formula – C₁₄H₁₀O₄

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APPLICATION

BENOX[®] L40LV can be used for room temperature curing of polyester and vinyl ester resins in combination with amine accelerators such as dimethyl aniline, diethyl aniline and dimethyl para toluidine. The system BENOX[®] L40LV/Amine gives you a very fast cure that is hardly influenced by the humidity and fillers. Even at low temperature a relatively good cure will be obtained. BENOX[®] L40LV is characterized by relatively fast cure with moderate to high exotherms in most resin systems, resulting in relatively short demoulding times. Possible application: Roof covering, floorings, chemical anchors. Another application where BENOX[®] L40LV has proven to work very well is the cure of road marking paints based on acrylic resins.

BENOX[®] L40LV is a low viscosity dispersion and may separate slightly on standing. It will remix easily and should be stirred immediately prior to use. Under normal spray equipment operating conditions, BENOX[®] L40LV should not be expected to separate in the catalyst delivery systems. However, when the system is shut down for long periods of time (i.e. overnight), and there are no provisions to recirculate the BENOX[®] L40LV, the catalyst section should be depressurized. BENOX[®] L40LV may be flushed from spray equipment using isopropanol, methanol or acetone followed by soap and water.

CURE CHARACTERISTICS

Curing of 2 mm laminate at 23°C

Formulation (parts by wt)

High Reactive Ortho Resin	100	100	100	100	100	100
BENOX [®] L40LV	5	5	5	2,5	2,5	2,5
10% DMA Solution	2	1	0.5	2	1	0.5

Cure Data (minutes)

Gel Time	6	10	30	10	19	44
Mould Release Time	10	15	50	20	35	90

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STORAGE

- Storage at 25°C or below is recommended. Protect from freezing.
- Store in original containers **away** from flammables and all sources of heat, sparks, or flames; out of direct sunlight; and **away** from reducing agents e.g. amines, strong acids or bases, heavy metal compounds (e.g. accelerators and promoters).
- **Damaged containers** – Remove and isolate in a safe area. Re-package or dispose immediately (see **spills**).
- **Never** store in refrigerators containing food and/or beverages.
- Consult local regulatory agencies.
- Rotate stock, use oldest date first.

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of BENOX[®] L40LV are 20 kg plastic pails or 200 kg poly drums. Weights are on a net weight basis.
- Classification – Please refer to the specific BENOX[®] L40LV Safety Data Sheet (SDS) under section 14 & 15, Shipping & Regulatory information. **NOTE:** SDS's for all Syrgis Performance Initiators products may be requested by contacting the company.
- BENOX L40LV is available through a global distributor network. Call Syrgis Performance Initiators for the name of the distributor in your area.

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