

BPO Paste — Phthalate-Free Premium Grade

PREMIUM

A phthalate-free benzoyl peroxide paste hardener; REACH-compliant, with strong heat resistance that suits warm climates.

TECHNICAL DATA

- Chemical: Dibenzoyl Peroxide (BPO) paste
- Empirical formula $C_{14}H_{10}O_4$ · Molecular weight 242.2 g/mol · CAS 94-36-0
- Dibenzoyl peroxide content: 50%
- Active oxygen: 3.3%
- Appearance: creamy paste · Odour: distinctive
- Insoluble in water · pH: acidic
- SADT (self-accelerating decomposition temperature): 50°C
- Recommended storage temperature: 5–25°C
- Phthalate-free (benzoate-ester plasticizer system) — better heat-degradation resistance and better dissolution in resins and monomers
- Available in white (neutral), red, blue and red-brown (colour = visual mixing guide; also pigments the cured substrate)

USE & APPLICATIONS

- Radical polymerization initiator and curing agent for vinyl, acrylic and unsaturated polyester / vinyl ester resins and their co-polymers, used with an accelerator (usually amine)
- Curing depends on humidity, filler/resin composition, temperature and technique — always test on the actual compound first
- Application areas: car repair, marine, marble & stone, wood, mining & construction, industrial processes

PACKAGING

Tubes, pails, carton box, drums (carton box & drums lined with a PE bag).

SAFETY & STORAGE

- Store in original containers, away from flammables, heat, sparks, flames and direct sunlight
- Keep away from reducing agents, amines, strong acids/bases, accelerators & promoters, copper/heavy metals, driers and rust — contamination can trigger violent decomposition
- Store 5–25°C; heat causes decomposition and performance loss; freezing damages the emulsion
- Rotate stock, oldest first (FIFO); never store with food or beverages

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This data sheet is for general guidance only and does not replace the current Safety Data Sheet (SDS). Contact us for the current SDS before first use.