

Product Data Sheet

Chemacure CAT-8050

General

Keycure CAT-250 is a versatile photoinitiator for cationic polymerization of epoxy, or oxetane-based photocurable systems upon light exposure. Keycure CAT- 250 can be used to cure effectively cationic inks & coatings, e.g. printing inks, white base coatings and adhesives.

Keycure CAT-250 is especially suitable for the curing of thick and highly pigmented systems.

Properties

Chemical Structure

Proprietary

iodonium hexafluorophosphate

Molecular Weight	:	496.2
Cas no.:	:	

Physical properties

Appearance	:	yellow to brownish liquid (solution)
Solid Content %	:	75%
Melting Point (°C)	:	
Volatile	:	
Absorption Peak (nm)	:	300
Viscosity	:	
Density	:	

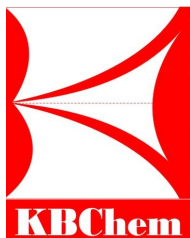
Applications

Chemacure CAT-8050 may be used, after adequate testing, alone or in combination with suitable photosensitizers, such as thioxanthenes, in UV curable inks and varnishes for application on paper, metal, wood, plastic materials, and adhesives. When used in combination with α -hydroxyketones, excellent surface curing can be obtained at substantially higher line speeds. Imaging applications in graphic arts (e.g. flexo and screen inks, white base coatings) may be of specific interest. KEYCURE CAT-8250 is also well suitable for adhesives applications.

KEYCURE CAT-8250 exhibits at low concentrations an outstanding curing performance in highly pigmented coatings and inks containing rutile titanium dioxide or colored pigments. It affords minimum yellowing

after exposure to sufficient amounts of UV radiation. In pigmented systems a photosensitizer must be used in combination with KEYCURE CAT-8250.

Additionally, the outstanding absorption properties of KEYCURE CAT-8250 allow curing of thick sections in particular when it is used together with the appropriate sensitizer. The amount of KEYCURE



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CAT-8250 required for optimum performance should be determined in trials covering a concentration range.

Recommended applications

White base coatings:	1.5-3%*
Flexo Inks:	1.5-4%*
Screen Inks:	1.5-3%*
Overprint Varnishes	1-1.5%*
Adhesives	

*In combination with 0.5-0.7% of a photosensitizer, e.g. thioxanthenes

Storage Conditions

Safety and Handling KEYCURE CAT-8250 should be handled with care in accordance with good industrial practice. Detailed information is provided in the Safety Data Sheet. A component in KEYCURE CAT-8250 is a strong skin sensitizer and can induce an allergic reaction. Therefore any skin contact and other types of exposure should be strictly avoided. Use protective clothing, gloves and face protection, if exposure is possible. Also consider technical measures to avoid or reduce exposure during transport, use, cleaning and disposal. In the presence of certain vinylethers, the stability of KEYCURE CAT-8250 can be negatively affected if the formulation is exposed to elevated temperatures. Therefore avoid higher temperatures or make prechecks with small quantities of your specific formulation. Do not discard KEYCURE CAT-8250 in the environment. In case of an unintended spillage use a water-free absorbant like UNI-Safe or Florideal to bind the material for approximately one hour. Store the material in a metal free container, which can be closed properly, and get it burned. KEYCURE CAT-8250 is sensitive to visible light and any exposure to sunlight should be avoided. Opened containers should be closed after use to protect the product against light and moisture.