

DEUTERON UV 1242

UV-Initiator for cationic polymerisation

/ Chemical Description

Compound based on Bis (dodecyl phenyl) iodonium hexafluoroantimonate

/ Physical Data

Appearance	brownish viscose liquid
Specific Weight	approx. 1,1 g/cm ³
Flash point	above 100 °C
Concentration (active ingredients)	approx. 50 %
Reactive solvent	C12/C14 Glycidilether



/ Properties

The photoinitiator Deuteron UV 1242 hardens binder systems that polymerize cationically under UV exposure. Deuteron UV 1242 is soluble in these binder systems including the usual solvents and reactive diluents.

The start of polymerization is initiated by exposure to UV light in the wavelength range of 220 to 250 nm. The maximum absorption is about 240 nm.

Its own color disappears when it is exposed to light so there will not be any impairment of color by using Deuteron UV 1242.

The handling is unproblematic at a normal daylight. The initiator has the following benefits compared to other initiators:

- no benzene emission
- only slight odor

Deuteron UV 1242 does not have a negative effect on film shrinkage because it contains no volatile solvents.

/ Application

Deuteron UV 1242 may be used as a UV hardener for all binding agents that can be cationically polymerized, particularly silicones and epoxides. Alkaline additives should be avoided because they impair the effectiveness of Deuteron UV 1242.

/ Dosage

Concentrations of at least 1 % of Deuteron UV 1242 are recommended for technical applications. It may be necessary to use 5 % or more for special requirements. The higher the dosage, the greater the hardening speed without having to fear that the film becomes brittle.

If possible, radiation exposure should take place at intervals. This would have the consequence of improved energy utilization with regard to the targeted final hardness.

/ Processing

Deuteron UV 1242 can be worked into the binding agent with a fast agitator or other agitating aggregates such as dissolvers without any problems.

/ Storage conditions

Under the right conditions, Deuteron UV 1242 can be stored in its original tightly closed containers for at least 12 months at room temperature. Do not expose to direct sunlight. Store at temperatures not below 10 °C and, if possible, not over 35 °C. Avoid contact with water.

/ Package Sizes

Plastic-can (20 kg net)

/ Safety Regulations

According to Regulation (EC) No. 1272/2008 Deuteron UV 1242 is classified as a dangerous product and therefore needs to be labeled. For more information please consult the safety data sheet.

/ UV Initiators from our portfolio

Deuteron UV 1240
Deuteron UV 1242
Deuteron UV 2257

This leaflet intends to give technical advice without warranty and does not claim to be complete.