

Data Sheet

Provisional

EPOXY-150

Low Yellowing, optically clear Epoxy, with Refractive Index = 1.50

EPOXY-150 is a 2 part epoxy, with low refractive index and low absorbance in the UV region. It has good adhesion to metals, ceramics and plastics.

EPOXY-150 was designed for optical applications, that call for low yellowing, high optical clarity, and a relatively low refractive index.

It is made of two parts to be mixed at 100:30 (+/- 10%). It has a pot life of about 1-3 hours, depending on mass, and a slow curing of about 24 hours that can be accelerated down to a few hours at 50-70C.

Typical characteristics of EPOXY-150

Mixed Viscosity, cps @25°	3000
Volatiles %	<0.1
density	1.05
Refractive index, liquid @589nm, 25°, mixed	1.498
Refractive index cured @589nm, 25°	1.518
Pot Life	1-3 hours
Ambient Curing	24 hours
Accelerated curing 50-70C	1-2 hours
Appearance	Colorless, Transparent, Rigid
Shelf Life	12 months

Storage

1. The product should be stored at ambient conditions of 5-30°C. Do not refrigerate.
2. Part B contains an amine that tends to absorb CO₂ and may form a white precipitate. Avoid long exposure to air.
3. The product shelf life is 12 months.

Application

Weigh a desired amount of Part A. Add 30 parts of Part B to 100 parts of part A. Mix well. Use within an hour or within a proper time before it becomes too thick. Start with an ambient curing or with a moderate temperature of 40-50°C. Elevated temperature curing prevents the tacky surface which results from the exposure to air (CO₂). Consider finishing with a post cure of a few hours at 60-80C. Without the post-cure, final properties may show only after a week. Good adhesion is achieved without waiting for final curing.

Cleaning

The non-cured adhesive can be removed with solvents such as acetone and iso-propanol or better a mixture of the two. Do not use solvents for hand cleaning. Use only soap and water.

Safety

Part B contains an amine and is irritant to the skin and tissues. Refer to the MSDS.

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