

EpoxyBond 14

Two-Part Epoxy Adhesive

Description

EpoxyBond 14™ is a pourable, low viscosity, clear, two-part, amine-based epoxy adhesive. It is both chemical resistant and stable under high vacuum when cured.

The (#71-10025) kit is supplied with forty (40) mixing cups. Pipettes are needed for transferring part A and B into the mixing cups and a scale with 0.01 g resolution is recommended.

Different batches, product age, storage conditions and applications may yield varying results.

Mixing Ratio, by WEIGHT

4:1 (Part A: Part B)

Curing Schedule

1 h @ 65 °C
OR
24 h @ 23 °C

Specifications

Pot Life = 1-2 hours, at 24 °C (75 °F)
Viscosity = 100-200 cps (@ 100 RPM/23 °C)

Cured Hardness

~ 85 Shore D

Applications

EpoxyBond 14™ is intended for use in low volume applications. In geological/petrographic applications it is excellent for adhering porous rock samples to glass slides prior to grinding/polishing.

For electronic applications it fills in open cavities of decapsulated die in package for backside thinning for FA and can be used to fill/stabilize open cavity LED modules.

For PCB microvias, it is effective (with vacuum) filling open vias where acrylics may not adequately penetrate to provide the necessary support for cross-sectioning.

EpoxyBond 14™ is soluble in #145-50210 Epoxy Dissolver.

Storage/Shelf Life

Keep containers stored at room temperature – refrigeration is unnecessary and not recommended.

Expected shelf life is one (1) year but refer to best by date provided on package to ensure freshness.

For additional information or questions, please contact us at:
info@alliedhightech.com

Warning/Danger



Refer to the SDS document for additional safety information.

Protective Equipment



Measuring/Mixing Directions

- 1) Place a small measuring/mixing cup (#71-10000-C) on a scale and tare/zero the display.
- 2) With a pipette, transfer the desired volume of Part A into the measuring/mixing cup. Calculate the desired weight of Part B needed by multiplying the weight of A by 0.25.
- 3) Tare/zero the display, then use a pipette to draw and transfer Part B into the measuring/mixing cup until the value reflects the addition of the 25% weight of Part B.
- 4) Remove and thoroughly mix the components for at least 30 s to ensure homogeneity of the mixture.
- 5) Use as needed based on the application.

Application Examples

Fill open/decapsulated cavities to stabilize for cross-section or backside prep/thinning of the die.



For porous rock/geological samples, the low viscosity of EpoxyBond 14™ effectively penetrates open cavities to help stabilize the open matrix to keep it together when grinding/polishing.