



15. August 2020 Three Bond GmbH

Three Bond 2217H

(One-comp. Epoxy Resins / Chip Bonder)

The products Three Bond 2217H is a one-component epoxy resin, which have been specially developed for surface mounting, in order to keep the components in position on the printed circuit boards during the placement and the soldering process. This SMD adhesive (Surface Mount Adhesives) excel in fast application methods and reduced curing times and ensure a perfect safety of the process.

1. Features

- The simple application by means of automatic dispensers and screen printers allows a faster placement.
- The fast curing of the resins at low temperatures (80°C ~) enables shorter processing times (example 150°C x 1 ~ 5 min).
- As the resins contain more than 99 % of nonvolatile matters, there is only a minimal shrinkage and outgassing while curing.
- The cured resins excel in excellent electric properties as well as in good chemical and thermal resistance.
- Perfectly suited as Chip-Bonder for Quad Flat Package (QFP).

2. Typical properties

Result	Unit
Red	
196	Pa⋅s
1.25	g/cm³
200 ~ 230	sec
70 ~ 100	sec
50 ~ 80	sec
35 ~ 65	sec
89 D	
25,2	MPa
99	°C
77 x 10 ⁻⁶	°C-1
	10.
+ 0.62%	
6	months
	Red 196 1.25 200 ~ 230 70 ~ 100 50 ~ 80 35 ~ 65 89 D 25,2 99 77 x 10-6 + 0.62%

*Curing condition: 120°C x 1min

3. Handling

- Keep the epoxy resins tightly closed in the original container and store them in a dark, dry, sufficiently ventilated, and cool place.
- Before opening the container let the products reach room temperature as otherwise the formation of dew would be resulting.
- To obtain optimal results, remove humidity, fat and other impurities from the fitting surfaces.

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- According to the nature of the joints (width, surface roughness, unevenness) apply an appropriate quantity of epoxy resins uniformly on one of the fitting surfaces and join the parts immediately, position them correctly and fix them.
- The degree of curing varies depending on the thickness of the coating, the ambient temperature and the duration of the process.
- When using precision resins, changes in viscosity versus the ambient temperature are to be verified.
- Products once transferred into another container should not be returned to the original container. Excess sealant can be easily wiped off with a cloth.

4. Packing

Different 20 ml, 30 ml Syringes (e.g. Semco, Panasert, Musashi and Fuji) and 370 g cartridges as well as 1 kg cans and 230 g DEK Pump Print cassettes

All data given here were compiled to the best of our knowledge and are based on experiments and tests of our Company. We cannot guarantee the results obtained through the use of our products, and all products are sold and samples given without any warranty, expressed or implied, of fitness for any particular purpose or otherwise and upon condition that the user shall make his own tests to determine the suitability of the product for his purpose.

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