Join Dissimilar Substrates

An electrical equipment manufacturer selected a two-component heat cure epoxy to join metal and ceramic substrates in a heat sink bonding application (dispensed in a lap configuration)…

- Adhesives can cost-effectively join two different types of substrates, resulting in greater flexibility of design and innovative product assembly.

Streamline your Process and Save Money

An electronic component manufacturer replaced a mechanical fastener with a one-component UV-VIS cure methacrylate adhesive in an electronic array packaging application. A relatively small amount of adhesive (0.5 - 4 grams per SKU) was applied in a filet configuration via precision syringe with a life expectancy of at least 5 years…

- Adhesives enable a reduction in the number of overall components in the final part without compromising the bond or thermal efficiency.
- Applied cost of adhesives can account for less than 1% of the total manufactured cost of the product.
- Adhesives meet the following specifications: ATM-0018, ATM-0089, ATM –0087, ATM-0068 and ATM-0031.
- Robotics can be used to apply adhesives, streamlining the process even further.

Improve Thermal Efficiency

An electrical equipment manufacturer selected a two-component heat cure epoxy to join metal and ceramic substrates in a heat sink bonding application (dispensed in a lap configuration)…

- Adhesives provide excellent thermal efficiency properties to the final product.
- Adhesives offer multi-functional benefits, often resulting in new business opportunities.

Reduce Component Weight

An electrical equipment manufacturer chose a two-component heat cure epoxy to join metal and ceramic substrates in a different type of heat sink bonding application (dispensed in a lap configuration)…

- Adhesives not only reduce the weight of the overall part, but also dramatically improve the component’s thermal efficiency.