Conformal
Coating...

...with UV
Tracer

Application Spotlight

Keep printed circuit board control systems working properly in a variety conditions with conformal coating! The electronics of a lift truck, that is used indoors and outdoors in all kinds of weather, is just one example. Applications include:

- Dust, dirt and debris protection

- Moisture protection

- Temperature protection

- Vibration resistance

- Chemical and solvent protection

Other applications include medical devices, military, aerospace, defense and other industrial control systems. Protect your technology from harsh environments

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Upcoming Topics:

- Design for Manufacturing Tips
- Cables & Harnesses
- Critical Inventory Management
- Box Builds
- New Inspection Techniques

Advantages of Conformal Coating

Conformal coating is a non-conductive thin polymeric film which contours to the varying contours of the printed circuit board to protect the components from moisture, dust, dirt, contaminants, chemicals and temperature extremes. Overall electronic control system reliability can be greatly improved when printed circuit boards are coated properly.

Selective conformal via masking or manual application allows the coating to be adhered precisely where needed. Robotic coating systems allow for precision application of many types of coatings without the need for masking. UV visible dyes (UV Tracer) can be added for ease of visual inspection.

There are many different coating types depending on the end application.

Selected Conformal Coating Types:

- *Urethane (Polyurethane) Resin (UR)* - known for its excellent moisture and chemical resistance.

- *Silicone Resin (SR)* - provides excellent protection under a wide temperature range. SR also provides good chemical resistance, moisture and salt spray resistance. SR is resilient against vibration stresses due to its flexibility.

- *Acrylic Resin (AR) -* provides fair elasticity and general protection. AR is recognized for its high dielectric strength.

SoPark's robotic selective coating system with large 15.75 in. X 22.0 in. capability.