



Conformal Coating

With UV Curing

Conformal coating of PCBs is used as a seal against dust or humidity in the operating environment, and provides strain relief against shock and vibration of components.

- Humidity/dust seal
- Strain relief
- Fast, accurate application
- Cost-effective
- Instant UV cure
- No masking needed
- Environmentally friendly



CT Production offers an automated selective conformal coating service using an approved material which is cost-effective and kind to the environment.

The automated application process is much more accurate and cost-effective than manual spraying or dip processes since it removes the need for masking no-go areas before application plus removal of the masking afterwards. It also avoids the need for manual touch-in of missed areas, because the machine applies the coating accurately, consistently and only where it is needed.

The PVA 650 machine is fitted with three types of nozzles for fast and wide, medium, or fine needlepoint accuracy. The machine can coat over or around simple or complex shapes and offers repeatability at a lower cost than manual methods.

Once applied, the coating material is cured in a focussed microwave mercury lamp UV system providing almost instant touch-dry catalytic curing. Investment in a UV pass-through oven was justified by the improved results and faster process time.

CT uses this system very successfully for many products from low volume aerospace products, to medium volume petrochemical monitoring instruments, to high volume low-energy lighting. The solvent-based coating previously specified by our customers required tighter health and safety control, plus baking and fume venting which needed great care due to flammability.

This service offers a win-win-win situation. There are huge benefits to the customer regarding cost and faster turnaround, working conditions for staff have been improved, and our impact on the environment is considerably less.

CT also offers an encapsulation (potting) process as part of its full range of electronics manufacturing services.

