

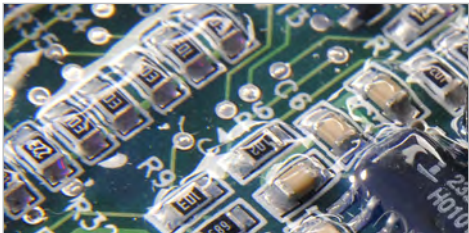
# PROTECTING YOUR PCB

## ADVANTAGES OF USING LIGHT-CURE CONFORMAL COATINGS



### Easy, Instant Application

- No heating, mixing, or preparation needed
- Numerous manual and automated application methods available (i.e. spray, jet, dip, brush)



### Superior Protection

- Excellent resistance against contaminants like salt, dust, moisture, and more
- Coatings available with UL, IPC, & MIL certifications



### Solvent-Free, 100% Solids

- Provides a greener process
- RoHS compliant



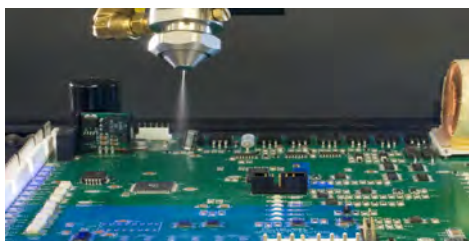
### On-Demand, Tack-Free Cures

- Cures in seconds with UV light allowing immediate processing
- Tack-free surface immediately after cure prevents possible damage from handling



### Secondary Cure Capability

- Secondary curing mechanism ensures proper cure in shadow areas
- Coatings with heat or moisture cure available



### Single Pass Coverage

- Less materials used, reducing material costs
- No waiting for layers to dry for a quicker process



### Fluorescing for Easy Inspection







- Coatings available that fluoresce blue or red under black light for easy inspection
- Immediate inspection for a quicker process

## INVERTER PCB COATING APPLICATION

**CUSTOMER APPLICATION:** A global producer of inverters was looking to find an alternative to their solvent-based conformal coating process. They needed a new process that would be effective and efficient, and could be used in multiple locations for 12 different types of inverter PCBs. The company's ultimate goal was to find an alternative that could help them increase productivity within their existing manufacturing space to meet a 30% demand increase.



### PROCESS COMPARISON

	Solvent-Based Conformal Coatings	Dymax Dual-Cure Conformal Coatings
Immediate handling	 Needs time for solvent to evaporate	 Tack-free immediately after UV light cure
Odor	 Strong odor from solvents	 Low odor for safer working environment
Thickness to achieve throughput and cost targets	 25 um max. dry thickness; did not meet existing electrical requirements	 50-200 um; met all requirements

#### SUMMARY:

- Immediate handling after UV cure saved time and increased throughput
- Odor was reduced and solvents eliminated for a safer work environment
- Fluorescing coating allowed fast coating inspection
- Cost targets were met within the same floor space

Output increased by almost

**50%**