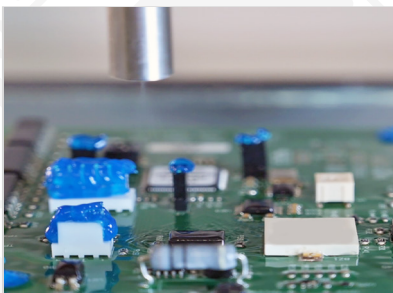


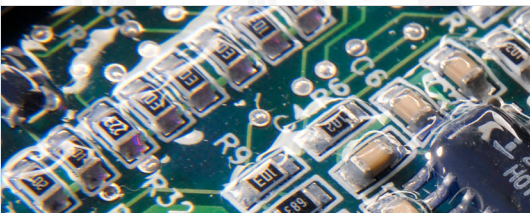
PROTECTING YOUR PCB

Advantages of 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)



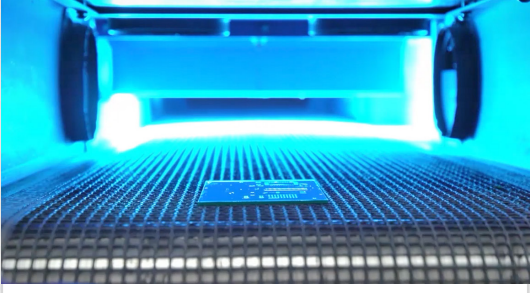
Superior Protection

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



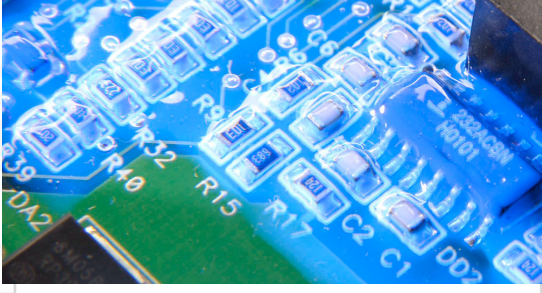
Greener Chemistry

- No added solvents
- RoHS compliant



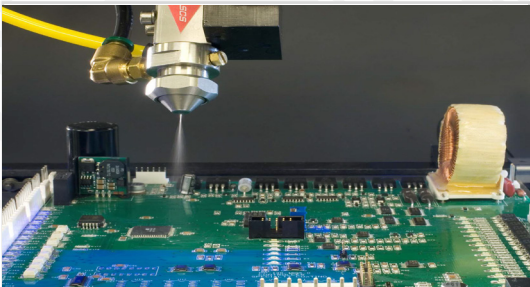
On-Demand, Tack-Free Cures

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



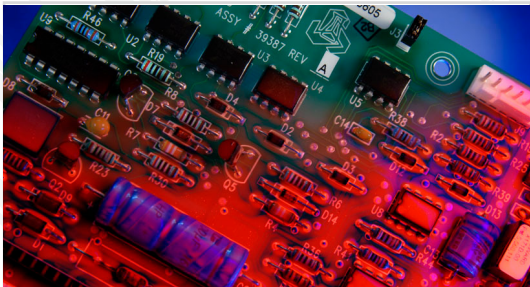
Secondary Cure Capability

- 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

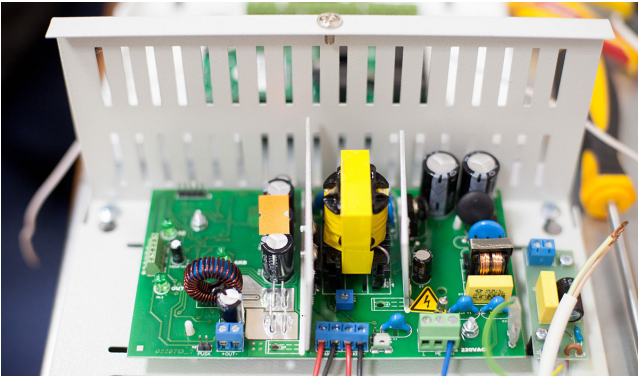


Secondary Cure Capability

- 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%



Dymax manufactures light-curable adhesives, coatings, and maskants, as well as compatible dispensing and curing equipment. We focus on creating materials that cure clean, green, and fast, helping engineering teams accomplish more in less time and with less negative impact on the environment.

www.dymax.com