

# Electrolube<sup>®</sup> UVFlex<sup>™</sup>

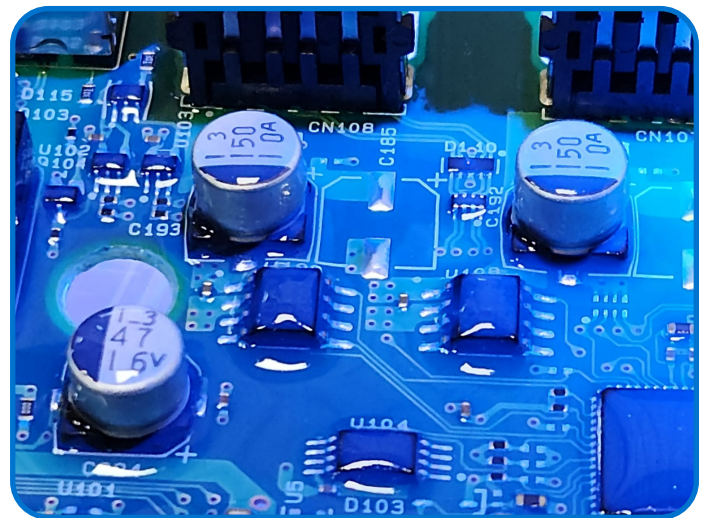
Combines Fast UV Cure with Superior Thermal Cycling and Surface Insulation Resistance

Setting a new benchmark in **UV-cure conformal coating technology**, **Electrolube UVFlex** was developed to address the performance gap between conventional urethane acrylate UV coatings and solvent-based alternatives in demanding applications where **thermal cycling performance** and surface insulation resistance (SIR) are critical. The solvent-free, fast-curing formulation delivers high elasticity and excellent insulation performance, maintaining electrical and mechanical reliability through more than **1,000 thermal cycles** from -40 °C to +125 °C. By utilizing the **efficiency of UV curing**, enhancing SIR performance, and improving thermal cycling capabilities, UVFlex offers a proven, **high-reliability solution** that ensures **long-term protection** of electronic assemblies operating in harsh environments.



## Key Attributes

- **Single-component UV cure** for easy processing, 100% solids formulation containing no solvents, PFAS, or silicone
- **High thermal cycling resistance** from -40°C to +125°C for 1,000 cycles, with a wide operating temperature range from -40°C to +150°C
- **Thixotropic for superior component coverage**, providing high protection in harsh environments and improved surface insulation resistance (SIR) in damp heat
- **Flame retardancy** UL 94 V-0 recognized (approval pending)
- **Bio-based content** 25% to 30% from sustainable sources



**Electrolube<sup>®</sup>**  
Conformal Coatings



Electrolube is a product brand of MacDermid Alpha Electronics Solutions. © 2026 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.



macdermidalpha.com