LOCTITE®

LOCTITE STYCAST CC 8555

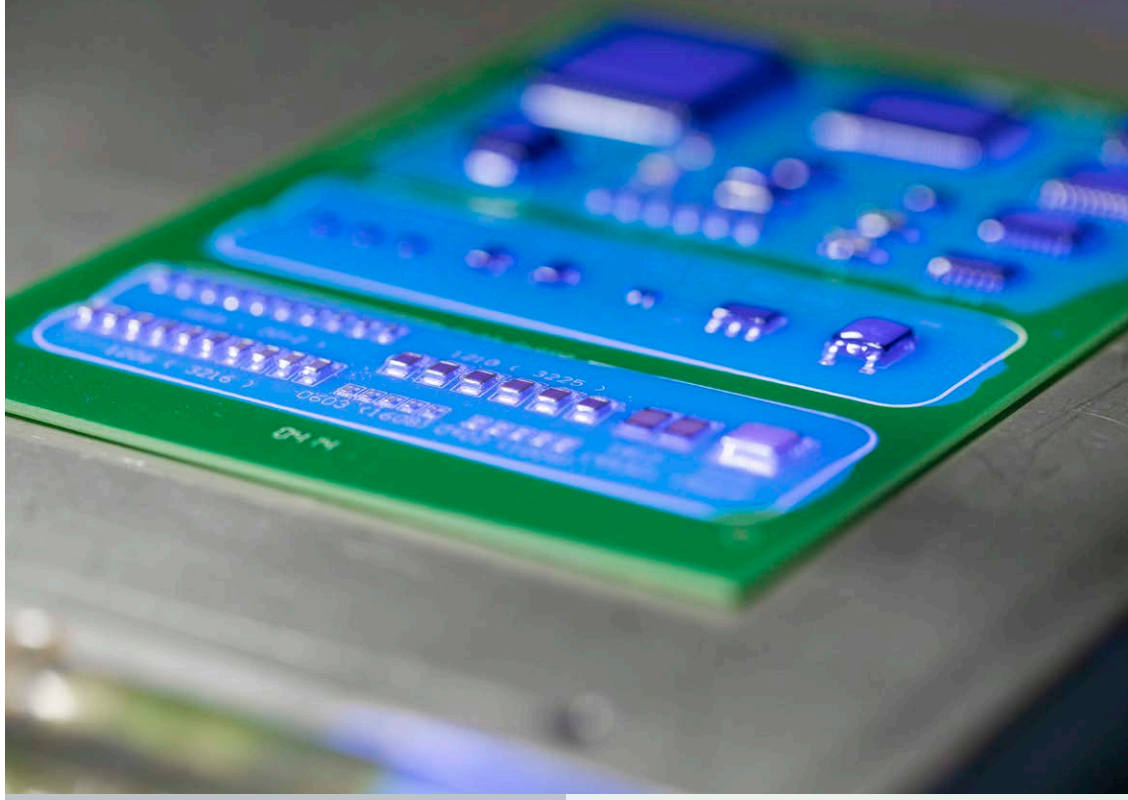
Solvent-free, UL 746E-rated Conformal Coating

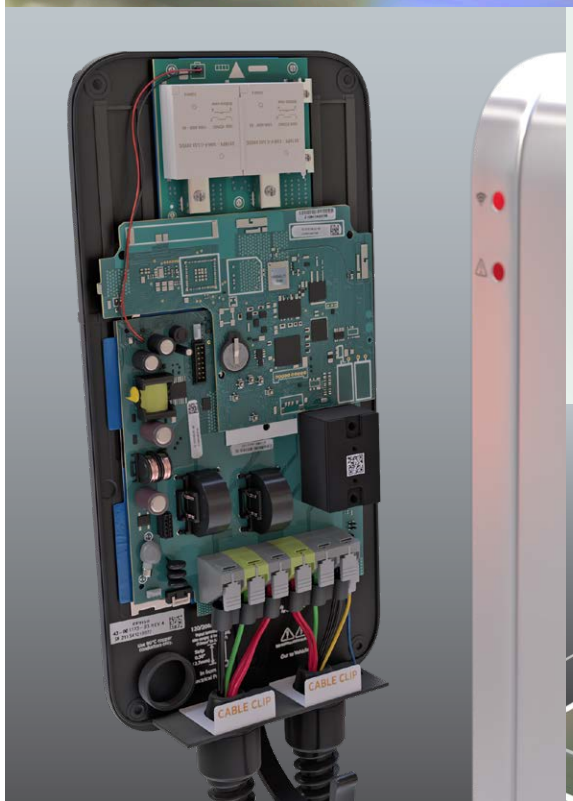
Industrial automation and power conversion applications are some of the most demanding for electronics. Expected to operate continuously with exposure to moisture, extreme temperatures, and corrosive liquids and vapors, electronic subsystems in these environments require rugged protection to ensure proper function and long-term reliability.

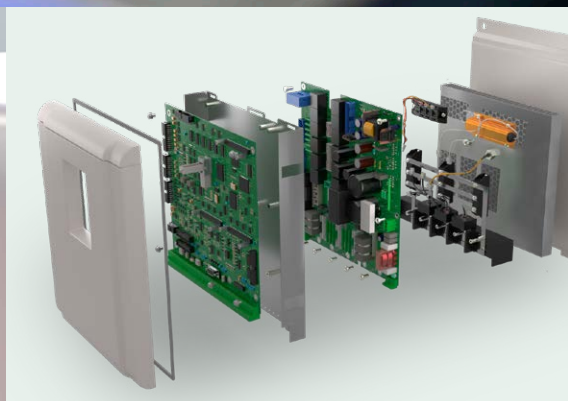
LOCTITE STYCAST CC 8555 is a high-performance conformal coating that protects electronics in harsh industrial environments. The material's ability to safeguard printed circuit boards (PCBs) and components within challenging conditions is verified by its UL 746E RTI rating at 130°C, UL 94 V-0 flammability rating, and resistance to corrosive gases. The one-component, dual-cure (UV and moisture) conformal coating is solvent-free, has good wetting and flow characteristics, and provides excellent electrical performance.

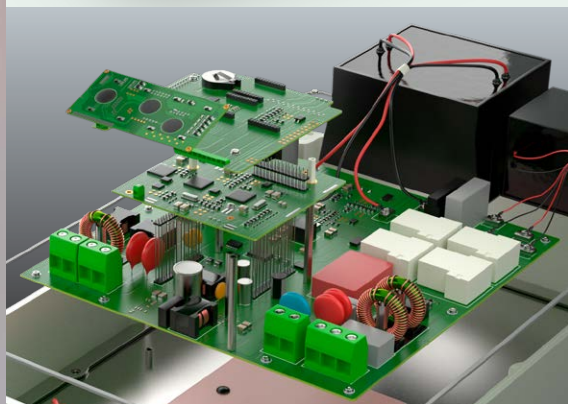
Henkel

Henkel Adhesive Technologies









LOCTITE®

LOCTITE STYCAST CC 8555 – Key Features of Solvent-free, UL 746E-rated Conformal Coating

RELIABILITY
- UL 746E relative temperature index (RTI) rating of 130°C
- Conforms to IPC-CC-830 requirements
- High corrosive gas resistance
- Protects against dust, moisture, harsh liquids, and vapors

SAFETY AND SUSTAINABILITY
- UL 94 VO flammability rating protects users against catastrophic failure
- VOC/Solvent free formula prioritizes human and environmental health
- RoHS-compliant
- UV + moisture dual-curing mechanism reduces required energy use versus heat-cured conformal coatings
- Lower carbon footprint compared to solvent-borne materials
- No organometallic catalyst

PROCESSING AND PERFORMANCE
- UV curable
- Good wetting and leveling for thorough, uniform coverage
- Excellent dielectric strength @ 27.5 kilovolts per millimeter (kV/mm)
- Good surface insulation resistance (SIR)

COST-EFFICIENCY
- Requires ⅓ to ½ less material than solvent-based materials to achieve target thickness
- Wide process window and fast throughput for high-volume production

APPLICATIONS
- EV charging infrastructure
- Motor drives and controllers
- PLCs and process instrumentation
- Alternative energy inverters and battery (power storage) management
- AC/DC power supplies
- Automotive electronics
- Server storage & telecom infrastructure
- Medical devices
- Aerospace electronics
- Appliances

LEARN MORE

REQUEST A SAMPLE

CONTACT US

Henkel AG & Co. KGaA
Henkelstraße 67
40589 Düsseldorf/Germany
E-mail: industrials@henkel.com

www.henkel-adhesives.com

Henkel