



## Press Release

February 5, 2024

Loctite Stycast CC 8555 offers excellent moisture and harsh chemical protection, meets demanding standards, and delivers on safety and environmental priorities

### **Henkel develops solvent-free, UV-curable, UL 746E-rated, high-reliability conformal coating**

Düsseldorf – Henkel today announced the commercialization of Loctite Stycast CC 8555, a conformal coating designed to protect electronics in extreme environments. This addition to the company’s conformal coating portfolio delivers printed circuit board (PCB) and sensitive component protection in challenging, high-power applications such as motor drives, PLCs, EV charging infrastructure, AC/DC power supplies, and other high-voltage electronics.

“High-power electronics are integral to industrial manufacturing, human mobility and comfort, and global energy production,” says Henkel Director of Market Strategy for Power and Industrial Automation, Justin Kolbe. “These systems must adhere to the highest reliability and safety standards; protecting electronics is vital to their dependable function and longevity. Conformal coatings are the go-to protective material for nearly all PCBs used in power electronics, and Henkel’s latest formulation rises above. It delivers on the reliability requirements foremost, but is also easy to use, cost-effective, and lower-impact material. Loctite Stycast CC 8555 covers all the bases and then some.”

Loctite Stycast CC 8555 meets the most stringent requirements for rugged safeguarding against corrosive conditions such as moisture, mixed gases, and various chemicals. It has a relative temperature index (RTI) rating of 130° C per the UL 746E standard, a UL 94 V0 flammability rating, and meets IPC-CC-830 requirements. Defending electronics from potentially damaging environmental impacts is essential for 24/7/365 industrial equipment, power conversion systems, and alternative energy infrastructure where reliability and longevity are expected.

In addition to its safety and reliability credentials, Loctite Stycast CC 8555 enables robust electrical performance, offers process simplicity, and is cost-competitive compared to solvent-based formulations. The new conformal coating has excellent dielectric strength of 27.5 kilovolts per millimeter (kV/mm) and good surface insulation resistance (SIR) to protect electrical functionality. When it comes to processability, Loctite Stycast CC 8555 also stands out. The material has a wide process window and good wetting, flow, and leveling performance, ensuring fast, thorough coverage of PCBs and sensitive components with no voiding or visible defects. Curing is achieved quickly, with primary UV cure occurring in seconds, followed by moisture cure for shadowed areas. High processing speed and the elimination of heat-induced curing also contribute to Loctite Stycast CC 8555's low total cost of ownership.

"Loctite Stycast CC 8555's VOC- and solvent-free formulation answers the call for environmental concerns and provides significantly lower cost from a surface area perspective," Kolbe explains. "With solvent-borne conformal coatings, three to four times the weight must be deposited to achieve the same thickness as non-solvent-based materials. This means Loctite Stycast CC 8555 can provide exceptional protection with one-third to one-half of the sprayed volume of a solvent-based system. Users get lower total cost, environmental volatiles reduction, energy-saving curing, and superior performance. That's a hard combination to beat!"

To discover more about Loctite Stycast CC 8555, visit [this web resource](#).

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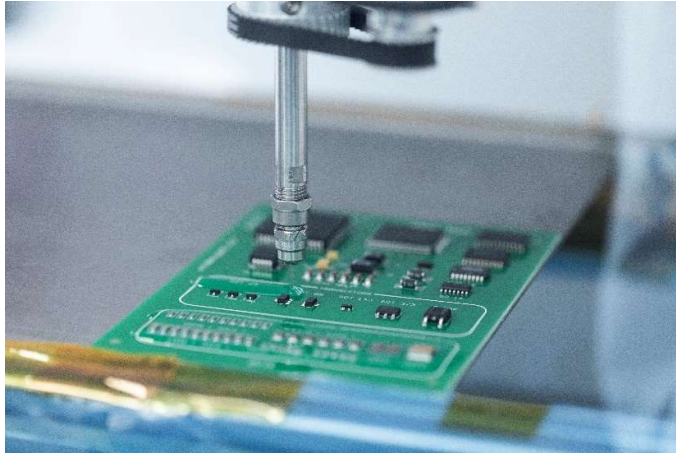
#### **About Henkel**

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The Adhesive Technologies business unit is the global leader in the market for adhesives, sealants and functional coatings. With Consumer Brands, the company holds leading positions especially in hair care and laundry & home care in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2022, Henkel reported sales of more than 22 billion euros and adjusted operating profit of around 2.3 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 50,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at [www.henkel.com](http://www.henkel.com)

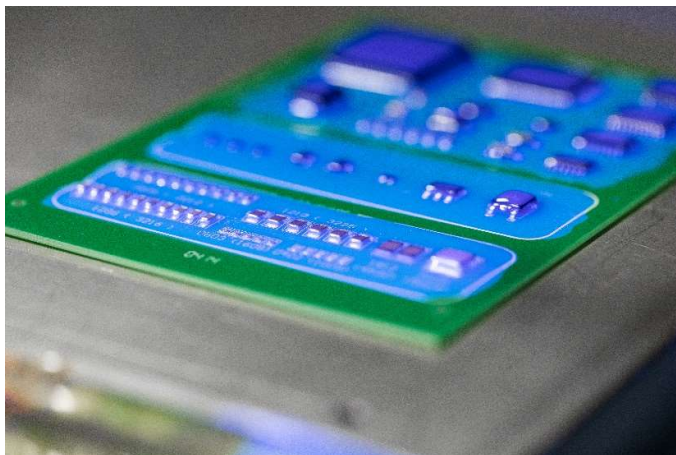
Photo material is available at [www.henkel.com/press](http://www.henkel.com/press)

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Henkel AG & Co. KGaA



Conformal coating material applied on the printed circuit board



Conformal coating material under UV light