



Press Release

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Sustainable, high-performance Loctite Stycast UV 7998 conformal coating ideal for mainstream electronics protection

Henkel expands conformal coating portfolio with solvent-free, cost-competitive, UL 94 V-0 rated formulation

Düsseldorf, Germany – Henkel today announced the market availability of Loctite Stycast UV 7998, the latest formulation in the company's line of award-winning conformal coatings. Uniting sustainability, UL 94 V-0 certification, and cost efficiency, the new Henkel material answers the market need for excellent electronics protection at a competitive price-performance ratio. The material is well-suited for many applications, including home appliances, lighting, consumer electronics, and automotive.

Conformal coatings are thin polymeric materials applied to PCBs and components and are ubiquitous for electronics applications that require a shield against moisture, dust, chemicals, and other environmental conditions that may limit performance and reduce product lifespan. Loctite Stycast 7998 provides this vital protection while lowering costs and enhancing safety, health, and the environment with its solvent-free composition.

"Meeting the demands of energy efficiency, mass production, operator safety, cost, and performance while fulfilling challenging certification standards is a difficult balance to strike," says Henkel Global Innovation Project Manager Oliver Steinbach, explaining the engineering achievement of the new material. "The aim was to engineer a next-generation conformal coating that delivers best-in-class performance, meets the highest sustainability criteria, and optimizes process efficiency. Loctite Stycast UV 7998 has achieved these objectives, bringing the electronics market a conformal coating solution that instills product protection confidence and demonstrates Henkel's purpose-driven innovation."

On the processability and performance front, Loctite Stycast UV 7998 rises above. The material is easily applied, offering self-leveling across the PCB assembly, excellent wetting, and uniform

coverage with no voiding. Once coated, curing takes place in seconds with energy-efficient UV light followed by a secondary moisture cure, after which the PCB is shielded from harsh environmental conditions and contaminants.

Importantly, Loctite Stycast UV 7998's strong attention to sustainability can enable electronics manufacturers to reduce CO₂ emissions by up to 40% (versus solvent-containing formulas), prioritize operator health, and realize significant cost improvements. Compared to solvent-based conformal coatings, the VOC-free, solvent-free Loctite Stycast UV 7998 requires as much as four times less sprayed volume to achieve a similar thickness. In addition to eliminating environmental volatiles, the material is tin-free, halogen-free, BPA-free, and RoHS- and REACH-compliant.

Emphasizing the demonstrable value of this material, Steinbach explains that the effectiveness of Loctite Stycast UV 7998 is already proven in the market. "In the home appliance sector, where reliability, longevity, and warranty protection are critical, we already have tremendous application success," he says. "This product was designed as a mass market solution for mainstream electronics, complementing our existing conformal coating portfolio and filling a gap not currently satisfied by other materials. Its early adoption suggests that Loctite Stycast UV 7998 has hit the target."

To discover more about Loctite Stycast UV 7998 or any of Henkel's conformal coating materials, visit [Henkel Conformal coatings](#)

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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 business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2024, Henkel reported sales of more than 21.6 billion euros and adjusted operating profit of around 3.1 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 47,000 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

Photo material is available at www.henkel.com/press

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Conformal coatings are applied to PCBs and components to help protect them against moisture, dust, chemicals, and other environmental conditions.

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Conformal coatings can help increase performance and product lifespan when applied to PCBs and other electronic components.