



## Press Release

November 08, 2024

Combined capabilities to drive novel healthcare applications presented at MEDICA 2024

### **Henkel, Covestro and Quad Industries collaborate for advanced medical wearables based on printed electronics**

Düsseldorf – Henkel, Covestro and Quad Industries today have announced a partnership in the field of printed electronics. By joining forces and combining their different areas of expertise the companies aim to accelerate customer developments for advanced medical wearables and to further drive the adoption of innovative printed electronics solutions especially for stretchable materials in healthcare applications. The partners will demonstrate their capabilities and showcase demonstrators at the upcoming MEDICA trade show in Düsseldorf, Germany, from November 11-14 at the Henkel booth (C59) in hall 13.

Henkel is an industry-leading supplier of printed electronics materials and services. The broad Loctite portfolio of functional inks includes conductive inks and paints as well as resistive and dielectric inks. These materials combined with four decades of formulation expertise enable the company's ecosystem partners to develop printed electronics applications tailored to the specific properties demanded by industrial customers – with a growing focus on the medical and healthcare industry.

During MEDICA Henkel will present a variety of printed electronics material solutions and its broad ecosystem of partners that enable customers to accelerate medical technology innovation for advanced healthcare applications. The company will showcase its expertise in the areas of printed sensors for diagnostics and hygiene, medical wearables, medical heaters and antennas for medical wearables. The partnership with Covestro and Quad Industries will be highlighted by the presentation of a patch demonstrator – an ECG pad for continuous patient monitoring of heart activities. Henkel and Covestro have developed the materials for this advanced wearable while Quad Industries is responsible for the customized design and manufacturing.

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“At Henkel, we strongly believe in the value of close collaborations and a broad and diverse ecosystem of partners to further unlock the enormous potential of printed electronics across industries,” explained Pia Schmiedel, Business Development Manager Printed Electronics at Henkel. “The partnership with Quad Industries and Covestro offers enormous potentials to accelerate and drive cutting-edge solutions for the fast-growing demand of advanced medical wearables such as stretchable materials enabled by printed electronics. With our presence at this year’s MEDICA trade show and the joint presentations with our partners we demonstrate our strong commitment to support the medical and healthcare industry in this transformation.”

Covestro is one of the world’s leading manufacturers of high-quality polymer materials and their components. The company supplies customers around the world in key industries such as mobility, building and living, as well as the electrical and electronics sector. In addition, polymers from Covestro are also used in sectors such as sports and leisure, telecommunications and health, as well as in the chemical industry itself. The company has developed high-performing Platilon® TPU films that enable the next generation of printed electronics for healthcare devices. These substrates are explicitly designed for high printing quality, processability, and mechanical strength. Covestro substrates facilitate easier printing, curing, and converting processes for printed electronics while providing skin-friendly, soft, and breathable features.

“Strong partnerships with suppliers and printing partners across the value chain are instrumental to develop customized solutions for printed electronics,” said Karine Benbelaid, Global Segment Head Medical – Specialty Films at Covestro. “We have tested and optimized our medical-grade Platilon® TPU substrates with Henkel’s Loctite conductive inks, and Quad Industries brings the capabilities to move this ideal material combination into efficient production. The combined expertise and resources of all three helps accelerating the development phase and prototyping for faster innovation cycles and shorter time-to-market for valuable solution in healthcare device innovation.”

Quad Industries is a pioneering technology company, specializing in the development and manufacturing of printed electronics. With a strong focus on innovation and customer collaboration, Quad Industries leverages its expertise to create cutting-edge products for various industries, including healthcare, automotive, consumer and industrial electronics. With its commitment to quality and sustainability the company is an ideal integration partner for innovative printed electronics applications.

“We are thrilled to partner with two leading material specialists such as Henkel and Covestro and combining their advanced materials for designing and manufacturing a wearable patch

demonstrator,” said Arne Casteleyn, Managing Director Sales and Strategy at Quad Industries. “We use our expertise in printing and converting to seamlessly integrate these materials into advanced smart patches, which is crucial to transforming raw materials into a solution that effectively demonstrates the potential of wearable healthcare technology. By showcasing these potentials at MEDICA, we aim to inspire potential customers and open new conversations around printed electronics innovations in across the healthcare market.”

Visitors are invited to explore a wealth of technical information and detailed insights into end applications at the Henkel booth, C59, located in hall 13. This engaging opportunity will be available from Monday, November 11th, through Thursday, November 14th, during the prestigious global medical fair, MEDICA, held in Düsseldorf. Attendees will have the chance to interact with knowledgeable staff, learn about innovative solutions, and gain valuable insights that can enhance their understanding of the medical industry.

#### **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 functional 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 2023, Henkel reported sales of more than 21.5 billion euros and adjusted operating profit of around 2.6 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 48,000 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, Covestro and Quad Industries collaborate for advanced medical wearables based on printed electronics with a focus on stretchable materials.



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