Press Article

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Henkel expands relationship with Carbon to further develop industrial 3D printing market

Henkel and Carbon to combine materials and printing expertise for high-performance additive manufacturing

Düsseldorf, Germany, and Redwood City, California, USA – Henkel and Carbon today have announced a partnership agreement to collaborate for Loctite branded formulations validated for use with Carbon's additive manufacturing process. As part of the collaboration the new Loctite 3D IND405 Clear material is immediately available to Carbon customers. The partnership agreement opens the door for industrial customers to access Henkel's patented single-component technologies (1K) for use with the Carbon Digital Light Synthesis (Carbon DLS) 3D-printing process.

Loctite 3D IND405 Clear certified for Carbon printers is a clear, tough, semirigid, 3D-printable material. Produced as a one-part resin, the clear polymer is easily printed using the fast, reliable and consistent Carbon DLS process. With potential applications for enclosures and housings, light pipe prototypes, bottle prototypes, jigs and fixtures for production floors and more, Loctite 3D IND405 Clear offers engineers and designers a clear and durable material solution.

"Henkel is a leading provider of single-component technologies for additive manufacturing," says Dr. Simon Mawson, Senior Vice President and Head of 3D Printing at Henkel. "Our expanded partnership with Carbon allows us to deliver Loctite solutions to customers in the aerospace, automotive, industrial and medical markets. Together we offer an efficient additive manufacturing workflow that facilitates the production of durable end-use parts."

Henkel is a longstanding trusted partner for providing industrial solutions to a broad variety of industries. Under its leading Loctite brand, the company offers a growing portfolio of resins for photopolymer 3D printing. By combining the Carbon DLS printing process with Henkel´s materials expertise and coupled with highly-vetted workflow print settings, the partners aim to drive more adoption of additive manufacturing at scale.

"We are excited to be partnering with Henkel to add this material to our portfolio of resins," says Dr. Jason Rolland, Senior Vice President of Materials at Carbon. "Our customers have asked us for a clear material that is tough, durable and high-impact resistant. Loctite 3D IND405 meets those needs, and we're committed to continuing to provide product developers the widest range of best-in-class materials."

The partnership opens the door for Carbon customers to access Henkel's patented single-component materials, building on Carbon's broad portfolio of resins that offer customers best-in-class polymer materials for a wide range of applications. With the Carbon DLS process and a growing portfolio of resins that deliver end-use performance, product developers and manufacturers can bring better products to market in less time.

"We are excited to partner with Carbon and combine our innovative, cutting-edge technologies to bring the Loctite 3D IND405 Clear material to market," Mawson adds. "We believe that the single-component technologies from Loctite, coupled with the Carbon DLS process, provide a best-in-class solution that enables higher precision, better functionality and outstanding economics. Together that puts us in a great position to deliver on additive manufacturing's promise to transform industrial manufacturing."

About Henkel

Henkel operates globally with a well-balanced and diversified portfolio. The company holds leading positions with its three business units in both industrial and consumer businesses thanks to strong brands, innovations and technologies. Henkel Adhesive Technologies is the global leader in the adhesives market – across all industry segments worldwide. In its Laundry & Home Care and Beauty Care businesses, Henkel holds leading positions in many markets and categories around the world. Founded in 1876, Henkel looks back on more than 140 years of success. In 2019, Henkel reported sales of more than 20 billion euros and adjusted operating profit of more than 3.2 billion euros. Henkel employs more than 52,000 people globally – a passionate and highly diverse team, united by a strong company culture, a common purpose to create sustainable value and shared values. As a recognized leader in sustainability, Henkel holds top positions in many international indices and rankings. Henkel's preferred shares are listed in the German stock index DAX. For more information, please visit www.henkel.com.

About Carbon

Carbon® provides industry-leading digital manufacturing solutions that empower companies to create high-performance 3D-printed products anywhere and at any scale. Based in Silicon Valley, Carbon joins advanced hardware, software and polymer materials capabilities on one digital manufacturing platform—giving companies the ability to design and bring better products to market in less time. With Carbon's ground-breaking Digital Light Synthesis™ process and broad family of liquid resins, manufacturers can unlock new business opportunities such as faster design cycles and product launches, on-demand inventory and local production, previously impossible product designs and mass customization. To learn more, visit www.carbon3d.com and follow Carbon on LinkedIn, Twitter, Instagram and Facebook.

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

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Loctite 3D IND405 Clear parts printed with the Carbon DLS process *(post-processed parts courtesy ProtoCAM)*.

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