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Press release

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ADDRESSING ASSEMBLY CHALLENGES WITH HENKEL'S NEW ULTRA-PERFORMANCE INSTANT ADHESIVE: LOCTITE 402

Henkel's extensive LOCTITE® Instant Component Bonding range has a new best-in-class instant adhesive product for the assembly of small components in high-speed production applications as well as quick, on-the-go repairs. This new addition is LOCTITE 402, an instant, high strength adhesive whose features and benefits are designed to help address industry challenges such as: productivity, reliability and design diversification.

The LOCTITE Instant Component Bonding range addresses many of the design and assembly challenges faced by manufacturers in their quest to pioneer new products that are innovative, reliable and profitable. LOCTITE 402 builds on this foundation with even faster fixture speed, superior heat performance and a unique, patented formula with upgraded health and safety credentials (formulated without the addition of traditional stabilisers such as HQ and MMBP). So, how do features of the LOCTITE 402 translate to benefits in modern manufacturing?

Fast fixturing & high strength

As LOCTITE 402 develops handling strength twice as fast on most substrates by comparison with selected other assembly solutions (3 – 10 seconds), it provides an elevated level of performance that meets the demands of modern manufacturing. This fast fixture speed, achieved at room temperature, helps increase throughput and reduces work-in-progress (WIP) for both manual and automated assembly. Productivity can be increased further with a comprehensive range of LOCTITE manual, semi-automated to fully automated dispensing equipment that is easily integrated into most production lines.



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LOCTITE 402 is a single-component instant adhesive that bonds most metals, plastics and elastomers as well as hard-to-bond materials with the use of a primer. It gives users a single solution for multiple materials and components which helps reduce assembly costs, process complexity and WIP. With ever-growing demand for more feature-rich yet smaller components in end-markets such as urban mobility, home automation and power tools, LOCTITE 402 helps manufacturers to have more options on aesthetics, performance and design.

Best-in-class high temperature performance

Even in extreme conditions, LOCTITE 402 delivers more reliable performance compared to many traditional instant adhesives. It demonstrates strength retention on most metals up to 135°C - both tested at temperature ("hot strength") and room temperature ("heat aging") - a big benefit, for example for end-products whose power supply and connectivity generate a lot of heat. Improved impact resistance is another feature of this adhesive compared with traditional instant adhesives.

Ground-breaking formulation

LOCTITE 402 also sets an important new health and safety milestone for instant adhesives. Its patented formula contains alternative raw materials that support the enhancement of worker and workplace safety. Several instant adhesive ingredients have come under greater regulatory scrutiny in select regions of the world. Two of these are hydroquinone (HQ) and 2,2'-methylenebis (4-methyl-6-tert-butylphenol) - also known as MMBP - whose primary role is to ensure the adhesive remains liquid in the bottle for the duration of its shelf life.

In response to regulatory change requirements and industry demand for safer assembly solutions, Henkel has exchanged certain raw materials in selected products in its LOCTITE range of Instant Adhesives. Although these raw materials were present in very small amounts in the original formulations, Henkel developed a novel stabiliser package which has allowed HQ and MMBP to be removed from the formulas for the most widely used Instant Adhesive products.

This health and safety breakthrough, in combination with the other technical advancements, make LOCTITE 402 a desirable alternative to other fastening methods in an even greater number of manufacturing environments. LOCTITE 402 incorporates best properties from the industry's top performing instant adhesives to give those involved in the design and manufacture of innovative products a significant competitive edge.

For more information on LOCTITE 402 and Instant Component Bonding go to [www.LOCTITE 402 Instant Adhesive - Henkel Adhesives \(henkel-adhesives.com\)](http://www.LOCTITE 402 Instant Adhesive - Henkel Adhesives (henkel-adhesives.com))

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 2021, Henkel reported sales of more than 20 billion euros. The company employs about 53,000 people globally – a passionate and highly diverse team, united by a strong company culture, a common purpose, 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.