Press Release

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Shorter process times and lower resource consumption with reduced CO_2 emissions

Less energy, more efficiency: Henkel optimizes aluminum anodizing with new additive Bonderite M-AD 2000A

Düsseldorf – With Bonderite M-AD 2000A, Henkel Adhesive Technologies introduces a new additive for the anodizing process that makes the surface treatment of aluminum more efficient and sustainable. The additive enables anodizing baths to operate at temperatures of up to 24 °C – significantly higher than the conventional 18–20 °C range. Thereby it reduces the energy required for cooling and extends bath life, all without compromising the quality or performance of the anodized layer.

Bonderite M-AD 2000A was specifically developed for companies involved in aluminum anodizing, whether as a surface treatment or as part of a pre-anodizing process. The focus lies on improving process and energy efficiency: Operating the anodizing bath at higher temperatures significantly reduces the need for cooling. At the same time, the additive helps lower sulfuric acid consumption by around 25 %. In addition, aluminum loss is reduced by one quarter, and process times are shortened by an average of 15 %. The more stable bath chemistry also extends the service life by up to 25 %, minimizing the need for disposal and replenishment.

"Our customers are looking for ways to make their production processes more sustainable and cost-effective without compromising on quality. Bonderite M-AD 2000A delivers exactly that: an additive that demonstrably saves costs, energy, and materials while ensuring consistent results," says Darshan Mehta, Business Development Manager, Light Metal Treatment, at Henkel.

The Qualanod certification underscores the additive's durability and high quality – even under real-world conditions such as long-term outdoor weathering tests conducted in coastal regions like Hook of Holland and Genoa. The product is now approved for use by all member

companies of the international Qualanod network. Initial industrial trials under real production conditions confirm the projected benefits: significant energy savings, reduced chemical usage, and consistent coating results. With the successful completion of testing and international approval, Bonderite M-AD 2000A is now available in Europe and will be introduced gradually to markets worldwide – wherever aluminum anodizing plays a critical role in production.

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 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

Contact	Caroline Sach	Svenja Meurer
Phone	+49 211 797-3479	+49 2602 950 99-15
E-mail	caroline.sach@henkel.com	svm@additiv.de

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Henkel research in action: The development of Bonderite M-AD 2000A demonstrates how additives can make anodizing processes more energy-efficient, sustainable and cost-effective.

Anodized aluminum profiles in various colors: The new Bonderite M-AD 2000A additive ensures a consistently high quality of the anodized layer while reducing energy and material consumption.