KLEIBERIT's next-generation adhesive technologies set the pace

Formaldehyde-free solutions, recycled materials and high-performance PUR adhesives are leading the charge in KLEIBERIT's long-held commitment to circular innovation.

Renowned as a global leader in advanced adhesive technologies, KLEIBERIT is setting new standards for sustainability and performance in the sector. The recent LIGNA 2025 trade fair provided the perfect platform for the brand to present its series of breakthrough adhesive solutions, capturing the attention of the fair's high-quality, targeted audience.

Long recognised for its industry-leading polyurethane (PUR) hotmelt adhesives used in surface lamination, profile wrapping, and edge/assembly bonding, KLEIBERIT continues to expand its offering with bio-based variants. These formulations, derived from renewable raw materials that do not compete with food production, significantly reduce dependency on fossil-based inputs while maintaining – and often exceeding – the high-performance benchmarks PUR adhesives are known for.

Among these innovations are an increasing number of Micro-Emission (ME) PUR adhesives, which contain less than 0.1% monomeric diisocyanate.

"Enter the KLEIBERIT 343.3 polymer system — a groundbreaking, formaldehyde-free adhesive that cures instantly"

KLEIBERIT is based in Weingarten Baden, Southern Germany) and has innovative research and production centres worldwide

These products are rapidly gaining market share, thanks to their safety profile and compliance with tightening global health regulations.

Closing the loop – recycled PET in adhesive production

Demonstrating its commitment to circularity, KLEIBERIT also introduced adhesive systems formulated with recycled raw materials, and notably including recycled PET bottles. This cradle-to-cradle approach reintegrates waste into the production cycle, helping manufacturers significantly lower their environmental impact while contributing to the broader circular economy.

These cutting-edge adhesives are already being applied in industrial-scale production environments, including in door and flooring manufacturing. End products meet the highest standards of quality and sustainability, backed by EMICODE® certification, which ensures low environmental impact during installation, use, and disposal.

Formaldehyde-free and instant-curing

Veneer bonding has long relied on traditional urea formaldehyde systems — admired for their clarity and speed, but increasingly scrutinised for their formaldehyde content. With growing regulatory pressure and consumer demand for safer indoor environments, the industry has lacked a viable alternative. Until now.

Enter the KLEIBERIT 343.3 polymer system — a groundbreaking, formaldehyde-free adhesive that cures instantly and allows bonded veneer panels to be processed immediately after hot pressing. This innovation eliminates discolouration issues while delivering performance that rivals (or exceeds) traditional systems, without the environmental or health-related downsides.

Innovation in action

KLEIBERIT's latest developments reflect a long-term strategy built around responsible sourcing, safer manufacturing, and closed-loop product lifecycles. Whether through the reduction of harmful emissions or the reintegration of recycled content, the company continues to lead the adhesive sector into a more sustainable era.

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