

UNFILLED PUR HOT MELT ADHESIVES FOR HIGH-QUALITY BONDING IN THE FURNITURE INDUSTRY

The adhesive manufacturer Jowat has been setting high standards with its portfolio for edgebanding. Modern hot melt adhesives are being developed to meet the requirements in a dynamic furniture market and the rising quality expectations. The product range has recently been expanded with the versatile adhesive Jowatherm® PUR 608.10. The unfilled PUR hot melt adhesive impresses with high initial strength even in elevated ambient temperatures and delivers edgebanding results with the seamless appearance expected by many customers.

Innovation, quality and sustainability – these are the guiding principles and core competencies of Jowat. “We develop adhesives and technologies that set benchmarks for quality in their respective markets,” says Pia Strompen, global product manager at Jowat SE. Hot melt adhesives for edgebanding applications have been an integral part of the Jowat portfolio from the very beginning. At the same time, it is important not to lose sight of the future and to continuously develop new solutions for the industry.

Fifteen years ago, the “zero bondline” introduced a new era in edgebanding. Apart from providing premium visual results, zero bondlines also have to meet rigorous functional demands. They must completely seal the joint between the edgeband and the wood-based board to prevent the ingress of moisture that could lead to a swelling of the carrier material. In addition, the bonding must be resistant to heat and UV radiation to ensure a long-lasting furniture piece.

Over the years, key advancements have been made in the development of PUR hot melt adhesives and, today, they play a bigger role than ever in the international furniture industry. Current market trends challenge manufacturers to establish increasingly flexible production processes. Demand for “batch size 1” is rising in comparison with mass production. Meanwhile, the bonding must be able to withstand considerable mechanical stress within the shortest amounts of time due to complex machines that have minimized the delay between individual processing steps.

Unfilled PUR hot melt adhesives have increasingly become key to meeting these demanding requirements. Jowatherm® PUR 608.10 is the latest addition to the edgebanding portfolio. The hot melt adhesive impresses with virtually invisible gluelines and high resistance to the demanding conditions in the manufacturing process. In addition, the adhesive delivers very good bonding strengths shortly after joining due to its rapidly increasing cohesion – even in high ambient temperatures. This allows quick downline processes, such as subsequent milling operations, without compromising the functionality of the bonding.

Seamless transition: Jowatherm® PUR 608.10 is colorless in the joint and optimally adapts to different decors. The resulting parts look as if made of a single piece, contributing to the premium appearance of the furniture. For the process, this means that the same adhesive can be used for a broader range of applications, reducing changeovers and saving valuable time.

Highest resistance: PUR hot melt adhesives have the advantage over thermoplastic adhesives. The chemical crosslinking that takes place within the adhesive after cooling and solidification irreversibly changes its microstructure. Once that chemical process is completed, these high-performance adhesives withstand even the strongest environmental influences such as heat, moisture or chemicals (e.g. cleaning agents, oils, etc.).



Available for industry and trade: Unfilled PUR hot melt adhesives made their major debut in the kitchen industry decades ago and have since become tried and trusted solutions in the field. However, demand is increasing in other areas of the furniture industry as well. Supplied in a wide range of packaging units and sizes, from big containers for industrial processors to practical cans with granulate for craft businesses, they can be processed with existing melting equipment.

Unfilled PUR hot melt adhesives couple high initial strength and a broad spectrum of adhesion with high yield. The minimized application amounts contribute to significantly thinner gluelines, which are not only visually appealing but also greatly reduce the risk of dirt adhering to the part.

Jowat's unfilled PUR hot melt adhesives range offer even more advantages. Jowatherm® PUR 608.00, for example, can reduce the energy consumption in comparison with other edgebanding adhesives due to its lower processing temperature starting from 100°C. The monomer-reduced alternative Jowatherm® PUR MR 608.90 facilitates improved health and safety standards and is free of GHS pictograms (in accordance with EU Regulation 1272/2008 and EU Directive 2008/58/EC). Another significant advantage of monomer-reduced adhesives is that they eliminate the requirement for additional training of processors, as required in the European Union.



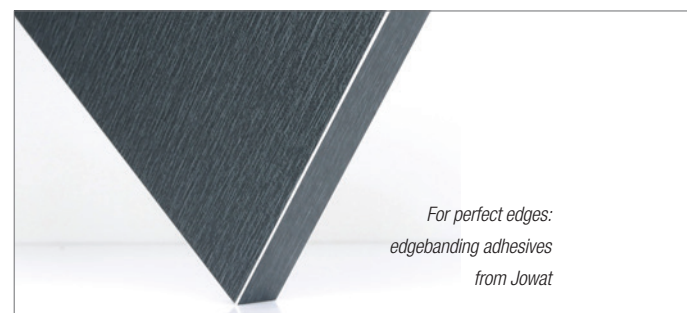
Invisible bondlines enable high-quality appearance

Unfilled PUR hot melt adhesives offer
a wide range of benefits



The challenges in the industry can only be tackled if companies are efficient and adaptable. While the Chinese furniture market has grown rapidly, new regional focuses in the field of edgebanding have emerged. At the same time, demand for PUR hot melt adhesives is rising also in North and South America. Choosing the right adhesive is of crucial importance for ensuring the success of these changes in the manufacturing process. Unfilled PUR hot melt adhesives provide a diverse range of solutions in this field. The products of Jowat are characterized by reliability and easy processing and contribute to the conservation of resources in different ways.

Green Adhesives are the major theme at this year's international trade fairs interzum and LIGNA in Germany, AWFS in the USA and FIMMA in Brazil. In addition to the products for edgebanding, Jowat will also be presenting the new Jowacoll® GROW 125.00, a dispersion adhesive that is 30 % biobased (in accordance with ISO 16620-4) for flat lamination. The spotlight will also be on the two new PUR hot melt adhesives for flat lamination, Jowatherm® PUR



For perfect edges:
edgebanding adhesives
from Jowat

609.60 and Jowatherm® PUR MR 609.92. The two adhesives are ideal for complex processes due to their long open time. With a very high initial strength, they are particularly interesting for bonding materials with high restoring forces, such as laminates and thick thermoplastic foils or veneers.

Visitors at LIGNA can look forward to even more: In addition to the extensive portfolio for the furniture industry, Jowat will also be showcasing the right products for the versatile applications in the building elements industry.

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