

Mattress manufacture

- A new generation of efficient adhesive systems
- High-quality adhesives for high requirements
- Hot melt adhesives fulfil requirements: OEKO-Tex® 100 | LGA | Blue Angel | IKEA



Jowatherm®

Jowat-Toptherm®

Jowatherm-Reaktant®

Jowatac® Super-HighSolid

Jowat adhesives for the mattress manufacture



Good mattresses are the basis of a restful sleep and regeneration. Adhesives play a major role in the manufacturing process of mattresses. In addition to bonding the different substrates, adhesives also help increasing comfort and health and therefore support a good night's sleep. Jowat SE supplies customers with a broad range of innovative products for all processes in the manufacture of mattresses. Besides higher expectations regarding their long term resistance, the adhesives are easy to process, even while the technological requirements and material diversity are increasing. Jowat develops thermoplastic and reactive hot melts and solvent-based adhesives, tailored for each specific application and used successfully worldwide.

Upholstery materials for mattresses are exposed to enormous stress in everyday use. In order to considerably improve the resistance of these finely-woven fabrics, they are laminated or coated on the underside with **Jowat-Toptherm® 239.75**.

Reactive polyurethane hot melt adhesives such as **Jowatherm-Reaktant® 630.80** allow to laminate incontinence sheets that require boiling resistance. The strict requirements for the sterilisation processes are fulfilled.

Pocket innersprings provide high comfort and are especially impressive due to their bounce back elasticity. **Jowatherm® 261.65** is used to support this comfort and guarantees that it remains unchanged in daily use, despite the high stress on the bondlines.

Foam lamination, for instance in the manufacture of foam mattresses with different foam layers, requires particularly soft and flexible adhesives. Compared to dispersion adhesives, **Jowatherm-Reaktant® 639.10** facilitates a considerably faster built-up of strength and therefore a more efficient manufacture with low energy requirements.

A high quality and comfort standard needs a soft and permanent bond during spring mattress assembly with different requirements for the adhesive depending on the mattress design and the specific process.

Jowat-Toptherm® 232.30 meets the requirements for automated handling processes, such as a fast build-up of strength to resist the tensions in the bondline and a wide range of adhesion to all materials used in the mattresses. All hot melt adhesives for mattress manufacture fulfil the requirements of the Oeko-Tex® 100 Standard, LGA, IKEA and Blue Angel certificates.

Different adhesive systems are used, depending on application, use and application technology. Jowat adhesives supply all applications of mattress manufacturing worldwide.

Laminating and coating of upholstery fabrics for furniture and mattresses

Jowat-Toptherm® PO hot melt

Product	Characteristics	Viscosity
239.75	high hot tack, transparent, high thermal stability	approx. 9,000 mPas at 190 °C



Foam and textile lamination

Jowatherm-Reaktant® PUR hot melt

Product	Characteristics	Viscosity
630.80	very high adhesion to foams and textile materials, high initial strength, good wash resistance	approx. 8,000 mPas at 140 °C



Foam lamination / foam mattresses

Jowatherm-Reaktant® PUR hot melt

Product	Characteristics	Viscosity
639.10	Wide range of adhesion, soft bondline, high initial and final strength, short pressing time	approx. 14,000 mPas at 120 °C



Innerspring assembly

Jowatherm® EVA hot melt

Product	Characteristics	Viscosity
261.65	very high adhesion to PE and PP nonwovens, short open time, short pressing time	approx. 4,200 mPas at 160 °C



Innerspring mattress assembly

Jowat-Toptherm® PO hot melt

Product	Characteristics	Viscosity
232.30	Wide range of adhesion, fast build-up of cohesion, short pressing time, open time up to 2 minutes suitable for direct Roll-Pack	approx. 2,800 mPas at 160 °C

Jowatac® Super-HighSolid - solvent-based adhesive

Product	Characteristics	Viscosity
476.74	good spraying characteristics in spite of high solids content, one- or two-sided application, high initial strength	approx. 1,900 mPas at 20 °C



Jowat | Ihr Partner in Sachen Kleben

Jowat | Your Partner in bonding



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Jowat – Kleben erster Klasse

Jowat – first class bonding

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