

Textile Industry

- Reactive hot melts
- Thermoplastic hot melts
- Pressure-sensitive hot melts



Jowatherm-Reaktant®
Jowatherm-Reaktant® PUR Tex
Jowat-Toptherm®
Jowatherm®

Jowat adhesives in the textile industry



Wherever adhesives are used to manufacture textiles, Jowat is the right partner: We offer a wide range of innovative products to our customers, for the most diverse requirements. For applications in the textile industry - above all for lamination and coating processes - thermoplastic and reactive hot melt adhesives have been developed and are used successfully worldwide.

However, reactive adhesive systems are not always necessary. Depending on the requirements for the end product, thermoplastic hot melt adhesives may also often be suitable.

Moisture-curing polyurethane hot melts (PUR) become necessary when special characteristics are required which go beyond the performance or process capability of hot melt adhesives. The wide adhesive spectrum, the high strength of adhesion even when grammages are minimal, and the low processing temperature, plus high levels of resistance, for instance in washing and sterilisation processes - all these are characteristic for this group of products. All PUR hot melts offered by Jowat

for the garment industry meet the high demands of the "Oeko-Tex Standard 100" for extremely low emission risks in textiles and have the respective certification according to Eco-Passport.

The thermoplastic hot melt adhesives are usually tailored to comply with specific requirements of an individual application. These product characteristics are targeted already during the adhesive development. Whether adhesion to the substrates, or specific properties that support some characteristics of the product like flame retardancy, breathability, sterilisation stability, or just high mechanical strength - the possibilities for a specific formulation are manifold.

A very broad spectrum of raw materials available allows the manufacture of tailored adhesives to match all requirements.

The diverse areas of application, from the garment industry to technical textiles, show the important role of adhesives for the end product.



Clottech

Garments - Clottech

The term Clottech covers a wide variety of textiles for clothing. These always require bonding when multiply compounds are assembled. Starting with laminating processes for very fine lingerie textiles, to functional outdoor textiles or protective clothing. The applications for sports and professional clothing are very similar.



Medtech

Membrane lamination - Medtech

This topic covers the applications above and also lamination for medical and hygiene wovens, which may be surgical drapes or incontinence articles. These demand high levels of resistance to washing and sterilisation, achieved when bonding with Jowatherm-Reaktant® products.



Homotech

Cover materials – Homotech

Are you sitting or lying down as well as you could? Cover materials for furniture and mattresses are exposed to enormous stress in daily use. The resistance and durability of these fabrics which may have very fine structures can be improved when the undersides are reinforced by lamination or coating using a Jowatherm® product.



Buildtech

Textiles for building - Buildtech

In the building technology, technical textiles also have to provide certain functions like tight seals, vapour barriers and absorbency of mechanical stress. The physical structural properties determine the ambient climate and can only be guaranteed by a secure compound of multiply textiles with suitable adhesives.



Indutech

Industrial applications - Indutech

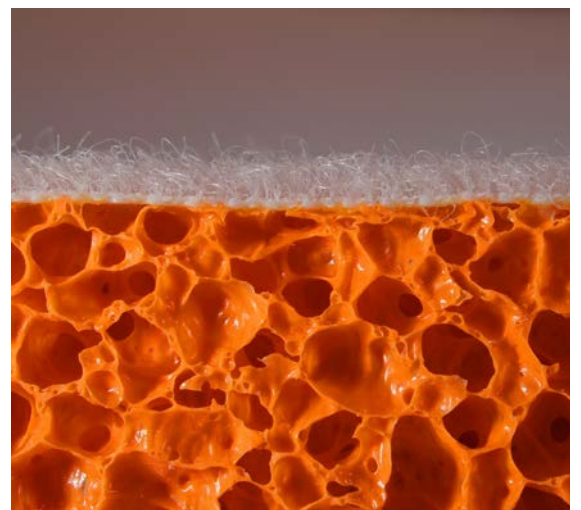
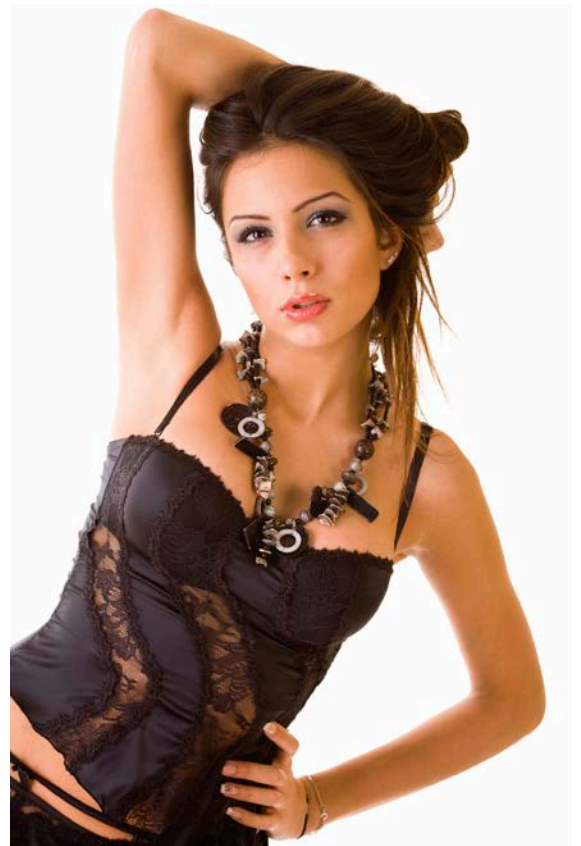
Technical textiles are used for a variety of industrial applications - for lamination of emery paper, or the assembly of multilayer filter materials. Jowat® adhesives support the properties of the product and at the same time make the manufacturing process highly efficient.



Homotech

Cleaning textiles – Homotech

For scrub pads, cleaning rags or mops - Jowat® adhesives are part of our daily lives.



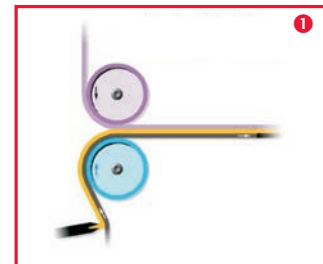
Coating Systems

The five coating systems outlined below are suitable for application of hot melt adhesives. They have the following characteristics:

- **Manufacture of two and three layer laminates**
- **air-permeable laminates**
- **good textile feel of the laminates**

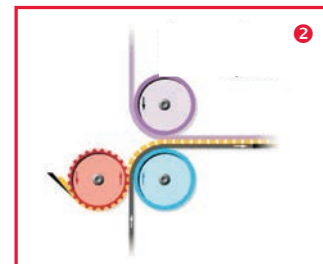
1 Wide slot nozzle coating system:

- closed application system
(no contact with oxygen and moisture)
- high line speeds
- above all for full surface coatings
- open coating structure (O.C.S.) possible



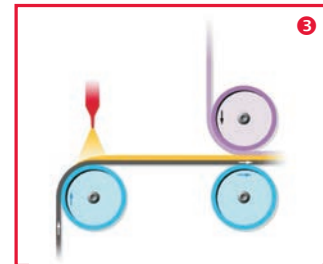
2 Gravure roller coating system:

- accurately defined adhesive pattern
- transfer of adhesive only in the contact area



3 Spray nozzle coating system:

- closed application system
(no contact with oxygen and moisture)
- high line speeds



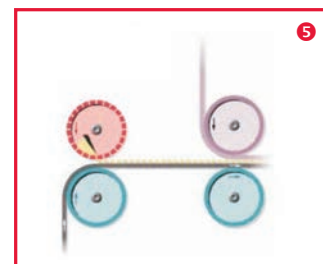
4 Multiple roller coating system:

- highly flexible - simple changes of adhesive
- especially for full surface coating



5 Screen print coating system:

- accurately defined adhesive pattern
- transfer of adhesive only in the contact area



Adhesive programme reactive hot melts

Depending on the application, purpose and processing technology, a variety of PUR hot melt adhesives are used. Jowat adhesives are successfully in use for many applications in the textile industry around the globe.

Jowatherm-Reaktant®

For textile lamination in the garment and automotive industry.

Product	Charactristics	Viscosity
630.20	Foam / Textile, Textile / Textile, high initial strength	approx. 10,000 mPas at 110 °C
630.80	Foam / Textile, Textile / Textile, high initial strength, high UV stability	approx. 8,000 mPas at 140 °C
637.10	Foam / Membrane, Textile / Textile, high washing resistance	approx. 14,000 mPas at 100 °C
638.20	Textile / Membrane, high washing resistance high UV stability, good adhesion	approx. 4,500 mPas at 100 °C
639.00	Superior adhesion, also PTFE membranes	approx. 8,000 mPas at 110 °C



Jowatherm-Reaktant®

For laminating abrasive surfaces and foam.

Product	Charactristics	Viscosity
639.30	very high initial strength, high heat resistance, good adhesion to resinated papers, foam, fleece	approx. 14,000 mPas at 120 °C
639.50	foam / abrasive, foam / foam, high initial strength	approx. 8,000 mPas at 120 °C



Jowatherm-Reaktant® PUR Tex

For membrane lamination in the garment industry for increased breathability.

Product	Charactristics	Viscosity
633.30	breathable adhesive, also PTFE membranes	approx. 8,000 mPas at 100 °C



Adhesive programme thermoplastic hot melts

Whether for mattresses, furniture or roofing liners: Thermoplastic hot melt adhesives made by Jowat meet the specific requirements of the individual application. Not only for direct lamination and precoating for subsequent bonding, but also for reverse coating to reinforce the fabrics.

Jowatherm® EVA-Hotmelts

For precoating and lamination of textiles
e.g. in the shoe industry.



Product	Characteristics	Viscosity
299.75	high hot tack, no blocking, transparent	approx. 49,000 mPas at 180 °C

Jowat-Toptherm® PO-Hotmelts

For fleece lamination to foils.

Product	Characteristics	Viscosity
230.45	high heat resistance, elastic, long open time, used for roofing liners	approx. 11,500 mPas at 190 °C

For laminating and coating furniture and
mattress cover fabrics.

Product	Characteristics	Viscosity
239.75	high hot tack, no blocking, transparent	approx. 9.000 mPas at 190 °C



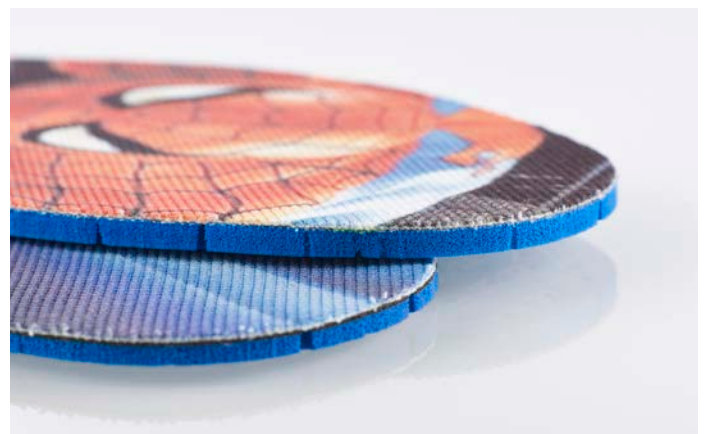
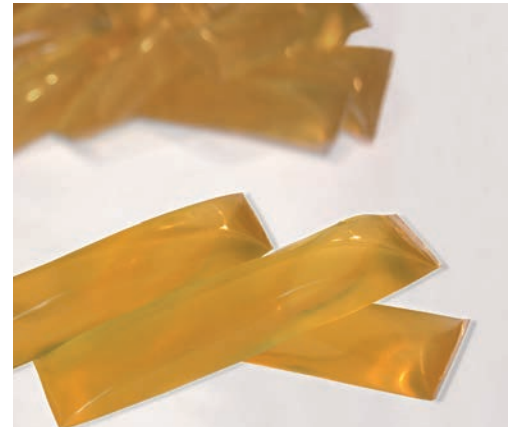
Adhesive programme pressure-sensitive hot melts

The application of pressure-sensitive hot melt adhesives to textiles and insulating materials is always a major technical challenge when high level of resistance to shear and peel are required. Jowat provides adhesives which match the high demands in the automotive industry.

Jowatherm®

For precoating and giving self-adhesive properties.

Product	Charactristics	Viscosity
245.00	good permanent tack, high peel strenght	approx. 17,000 mPas at 160 °C
244.80	superior heat resistance, automotive applications	approx. 23,500 mPas at 180 °C



Note: The products listed only represent a limited selection of the available product portfolio. Our service and consultation team from Sales and Product Marketing will be pleased to provide specific information, to select the product suitable for your process.

Jowat | Ihr Partner in Sachen Kleben

Jowat | Your Partner in bonding



The information given in this leaflet is based on test results from our laboratories as well as on experience gained in the field, and does in no way constitute any guarantee of properties. Due to the wide range of different applications, substrates, and processing methods beyond our control, no liability may be derived from these indications nor from the information provided by our free technical advisory service. Before processing, please request the corresponding data sheet and observe the information in it! Customer trials under everyday conditions, testing for suitability at normal processing conditions, and appropriate fit-for-purpose testing are absolutely necessary. For the specifications as well as further information, please refer to the latest technical data sheets.

Jowat – Kleben erster Klasse
Jowat – first class bonding

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