

NEWS

Special adhesives for top products

Moisture-curing, one-component polyurethane hot melts (PUR-HM) have been solidly established for textile lamination applications.

Jowat is offering a mature product range for laminating the most varied textiles to each other, or to foils. These compound laminations are used in the following industrial sectors: automotive, medical and hygiene, clothing, shoe, leather and upholstery.

A small group of **Jowatherm-Reaktant®** adhesives can match a huge spectrum of customer requirements. Among possible applications are double or triple-layer textile laminates of cotton, polyester or polyamide, to PVC, polyester or polyurethane foils, or compound assemblies with foam backing or fleece.

Moreover, we consider the rapidly developing membrane market by developing new adhesives.

These adhesives can run on conventional application systems like slot nozzle or roller, but also on very special equipment, like melt-print or screen print and spray application units. The illustration below gives an outline of the major technical properties of this group of products. These adhesives may also be customised for specific applications, for instance they can be

- colourless, translucent
- white, UV-stabilised
- black colouring
- with flame-retarding agent
- with optical brightener

(please turn)



In order to create a permanent bond in underwear while maintaining the optical and tactile pluses, hot melts of the Jowatherm-Reaktant® series 637.xx and 630.xx are used by preference. These special adhesives also meet requirements concerning boiling and dry cleaning resistance.

INFO Jowatherm-Reaktant® PUR hot melts for textile lamination							
Jowatherm-Reaktant®	630.00	637.00	637.10	639.00	634.17	613.30	613.40
Main area of application / Characteristics	For the manufacture of textile compounds in the automotive sector and the textile processing industry					Lamination in car interior	
	For bonding of special textiles, for example, high initial strength, suitable for moulding	For bonding textiles in the medical area, stain resistance, good hydrolysis resistance.	For bonding of textiles with a pleated effect, suitable for application with gravure rollers and screen plants	For bonding of textiles and general use with low application temperature	For bonding of velours to reverse of sanding paper	Universal adhesive mit very high green strength, very well suited for fold bonding	Automatic laminating machines, extreme high green strength, very short open time, high reactivation temperature
Processing temperature in °C	approx. 140	approx. 100	approx. 100	approx. 100	approx. 140	approx. 140	approx. 140
Viscosity in mPas (at 100°C)	approx. 9,000 at 140 °C	approx. 8,000	approx. 15,000	approx. 10,000	ca. 20,000 at 140 °C	approx. 45,000	approx. 20,000
Open time in seconds	approx. 20 - 30	>60	>60	≤60	approx. 6	approx. 15	≤1
Reactivation temperature in °C	approx. 40 - 50	approx. 30 - 40	approx. 30 - 40	approx. 30 - 40	approx. 40 - 50	approx. 70 - 80	approx. 80 - 90

JN-E031 06/2009

First class bonding



Laminating adhesives II



Textiles are laminated for use as beachwear with Jowatherm-Reaktant® 637.00 and 630.00. The main criteria for this are UV resistance, pleasant textile feel and boil-resistance.

The most suitable product for meeting requirements of high resistance to hydrolysis (boil and steam sterilisation) is **Jowatherm-Reaktant® 637.00**, a product which when fully cured still maintains a very agree-able textile feel.

The many advantages of these polyurethane hot melts for instance

- high initial adhesion
- good resistance to high and low temperatures
- pleasant textile feel
- excellent adhesion
- superior ageing resistance
- good hydrolysis resistance
- wide customising spectrum

are promising to give these products an ever-growing market share in the sector textile lamination over the next years.



Seat covers (also made of leather) are assembled with products from the Jowatherm-Reaktant® 63x.xx series, which will provide excellent adhesion to a large number of the most varied substrates.



Jowatherm-Reaktant® 634.17 is a special development for laminating velours to sanding paper.

When using adhesives in the sector medicine hygiene, the demands for resistance to sterilisation, hydrolysis and boiling are high. Jowatherm-Reaktant® 637.00, 637.10 and 630.00 will fully meet these requirements.



Protective gear of this kind has to be treated with flame-retardent agents. Jowatherm-Reaktant® 630.06 is a product especially developed for this application.

Jowatherm-Reaktant® 63x.xx and 613.xx are suitable for lamination in the automotive sector. High initial strength data, as well as excellent resistance to heat and weathering are the factors which make these adhesives outstanding.



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