Application Information

Flat lamination

Formaldehyde-free with dispersion and hot melt adhesives
Polyolefin hot melts for very hard surfaces
PUR hot melt adhesives for kitchen and bathroom



Jowacoll[®] 124.00 Jowat-Toptherm[®] 236.50 Jowatherm-Reaktant[®] 609.40



Modern adhesive systems for perfect surfaces



In modern furniture manufacture, wood-based panels are surface-laminated with the most diverse materials. Apart from resinated decor papers and veneers, of thermoplastic foils, CPL and HPL are frequently used. These materials are bonded using a variety of technologies which demand specific optimised adhesive solutions. For years, the state of technology was processing with Urea Formaldehyde (UF) adhesives. These are, however, viewed with growing reserve, due to current aspects of health and ecology. Innovative Jowat adhesive systems on dispersion or hot melt bases are the efficient alternatives.

When the surfaces are decor foils, CPL, HPL or veneer, a number of dispersions have become established which are tailored for the respective processes. Actually D2 products are in use - either based on PVAc like **Jowacoll® 124.00** or on EVA like **Jowacoll® 148.00** - but also reactive dispersions of durability class D3, like for instance **Jowacoll® 103.05**. Usually, the adhesive is applied by roller onto the base materials and pressing can be carried out subsequently with cold, but also with hot pressing methods, Roller laminators are often used in throughfeed lines and stationary pressing times are not necessary.

In veneering operations, special settings can minimize a penetration of the glue, and the risk of discolourations can also be successfully reduced or eliminated by adjusting the pH value of the dispersion. In flat lamination, a crucial factor for quality is a smooth and even surface appearance. Any slight or more pronounced surface swelling of the woodbased substrate is prevented when using hot melt adhesives (solid content of 100 %).

The adhesive **Jowat-Toptherm**[®] **236.50** is a product which sets new standards with regard to performance and efficiency. As unfilled polyolefin system, **Jowat-Toptherm**[®] **236.50** allows application amounts which are optimized. The most important factor for a visually appealing and smooth surface that is at the same time resistant, is a thin, hard bondline. Highest surface quality and low VOC emissions are outstanding performance factors of this adhesive. Superior results with regard to surface quality are a consequence of the high impact resistance (Shore hardness) of the adhesive. The product is also convincing when temperatures are higher, and possible defects caused during panel stacking in the factory is efficiently prevented. The highest strength and impact resistance levels, for in- like Jowatherm-Reaktant[®] 609.40 are the products of stance for kitchen and bathroom cabinets, can be achieved choice. The PUR hot melt adhesives are convincing with moisture-resistant polyurethane hot melt adhesives of due to their low processing temperatures, an excellent the Jowatherm-Reaktant® family. Especially for modern high adhesion to difficult substrates and their superior longgloss plastic surfaces based on thermoplastic foils, products term durability.

Jowacoll[®] 124.00

PVAc glue for flat bonding of veneers and laminate panels to particleboard also for doubling of particleboard. Fast setting and gap-filling.

Polymer basis		PVAc
Viscosity at 20 °C	[mPas]	9,500
Density	[g/cm ³]	1.24
Min. pressing time at 20 °C [min]		2
Min. pressing time at 60 °C [min]		1
pH value		approx. 7.0
Durability class		D2

Jowat-Toptherm[®] 236.50

Polyolefin hot melt adhesive for flat lamination. High hot tack, good adhesion to finish foils on paper bases an thermoplastic foils. High heat resistance.

Polymer basis		PO
Viscosity at 190 °C	[mPas]	9,000
Density	[g/cm ³]	0.87
Processing temp.	[°C]	180 - 200
Hardness Shore A at 20 °C		approx. 90
Softening range	[°C]	approx. 110 (Kofler bench)
Supply form		granulate

Jowatherm-Reaktant® 609.40

For the manufacture of compound panels / flat lamination. Polyurethan hot melt adhesive for flat lamination and for the manufacture of compound panels. Very good adhesion. Low processing temperature.

Polymer basis		Polyurethane
Viscosity at 120°C	[mPas]	approx. 7,000
Processing temp.	[°C]	100 - 120
Density	[g/cm³]	approx. 1.1
Open time	[min]	approx. 4
Reaction time	[d]	approx. 3







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



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Jowat – Kleben erster Klasse Jowat – first class bonding



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