

ADiNO®
Klebstoffe



Adhesive Innovation

**FURNITURE INDUSTRY
ADHESIVES & CLEANERS**



Zuverlässig, flexibel und anwendungsorientiert

Wer wir sind

- Ein erfahrenes Team mit über 30 Jahren Erfahrung in der Entwicklung, Produktion und Anwendung von Industrieklebstoffen
- Gegründet im Jahr 2013 mit dem Ziel, in der asiatischen Region maßgeschneiderte Produkte und technische Lösungen für die Möbel- und Matratzenindustrie zu bieten
- **Adino GmbH** dient als Technologiezentrum für Formulierungen, Rohstoffbeschaffung und Branding
- Adino kooperiert je nach Klebstofftechnologie mit unterschiedlichen europäischen Lohn Produzenten sowie produziert in eigenen Produktionsstätten in Thailand und China
- Adino ist ein führender Anbieter in der asiatisch-pazifischen Möbel und Matratzenindustrie
- **Shandong Adino New Materials** bietet seit 2024 eine große Entwicklungs- und Produktionskapazität für verschiedene Klebstofftechnologien (z.B. reaktive PUR Hotmelt's)
- Unser Ziel ist die weltweit weitere Expansion nach Erfolg in Asien

Reliable, flexible, and application-oriented

Who we are

- An experienced team with over 30 years of experience in the development, production, and application of industrial adhesives
- Founded in 2013 with the aim of providing customized products and technical solutions for the furniture and mattress industry in the Asian region
- **Adino GmbH** serves as a technology center for formulations, raw material sourcing, and branding
- Depending on the adhesive technology, Adino collaborates with various European contract manufacturers and produces in its own facilities in Thailand and China
- Adino is a leading provider in the Asian-Pacific furniture and mattress industry
- **Shandong Adino New Materials** has offered a large development and production capacity for various adhesive technologies (e.g., reactive PUR hot melts) since 2024
- Our goal is further global expansion following success in Asia

The brochure in your hand comprises a limited selection out of the complete ADiNO® product range. Your ADiNO® representative will be pleased to discuss your exact bonding requirements with you and to recommend the most suitable adhesive for your specific needs.

For more detailed technical information, characteristics and application parameters than mentioned in this product selection, please refer to the original TDS or consult with our locally available technical service.



EVA - Hotmelt

- Standard applications in the interior furniture industry
- Good heat and cold resistance

PO - Hotmelt

- Very high heat resistance
- Low consumption
- Less cleaning in melting units and nozzle applicators

PUR - Hotmelt

- Highest resistance towards moisture, temperature and chemicals
- Highest bonding strength
- Zero glue-line

Choosing the right edge-banding adhesive is the first crucial bit in your process. To considered are materials and equipment, technical and visual requirements in the end-product, and of course cost and production efficiency. In the ADiNO® hotmelt range you will not only find adhesives which fulfil your requirements in the bonding performance, but also which provide benefits in competitive production cost.

Edgebanding

Technical Specifications	HM 9184.0	HM 9182.0	HM 9183.0	HM 9286.0	HM 9287.0	HM 9265.0	HM 9298.0	HM 9585.0	HM 9590.0	HM PU 9060.0	HM PU 9062.0
Adhesive System	EVA									PUR	
Application Temperature [°C]	120-150	120-150	140-160	170-190	170-190	180-210	180-200	180-210	180-210	120-150	120-150
Softening Point R&B [°C] approx.	105	75	82	103	95	98	100	100	93	83	82
Feeding Speed [m/min] approx.	5-20	5-20	5-20	10-40	10-40	12-30	10-40	10-60	10-40	10-40	10-60
Viscosity [mPa.s] approx.	at 140 [°C]	45,000	32,000	65,000	-	-	-	-	-	70,000	70,000
	at 200 [°C]	-	-	-	85,000	75,000	66,000	50,000	85,000	57,000	-
Density [g/cm³] approx.	1.10	1.41	1.30	1.35	1.42	1.37	1.45	1.07	0.95	1.10	1.25

Applications

Thermoplastic Edgeband	●	●	●	●	●	●	●	●	●	●	●
Melamine / Paper Edgeband	●	●	●	●	●	●	●	●	●	●	●
Veneer	●	●	●	●	●	●	●	●	●	●	●
Solid Wood Edgeband				○	○	○	○	●	●	●	●
Acrylic Edgeband			○	○		○		●	●	●	●
Soft - Forming				●				●	●		
Automatic			●	●	●	●	●	●	●	●	●
Manual	●	●	○	○	○			○	○		

● > Recommended || ○ > Suitable ||

Low Density EVA hotmelts from ADiNO work with application amounts of up to 30% lower compared to standard EVA types. Aside of this effect as a result of their low density, their higher bonding strength compared to standard EVA types allow optimized “invisible” glue-lines for improved optics.

Technical and cost benefits, combined with their suitability with a wide range of edge and surface materials make our low-density EVA hotmelts a popular choice in most edge-banding applications.

Supply in cartridge form, for HOLZ-HER or similar cartridge systems, is available as well.

Profile Wrapping

Technical Specifications		HM 9160.0	HM PU 9070.0	HM PU 9073.0	HM PU 9076.0
Adhesive System		EVA	PUR		
Application Temperature [°C]		180-200	120-150	120-150	120-150
Softening Point R&B [°C] approx.		96	75	78	70
Feeding Speed [m/min] approx.		15-80	10-40	10-60	10-30
Viscosity [mPa.s] approx.	at 140 [°C]	36,000	31,000	30,000	25,000
	at 200 [°C]	6,500	-	-	-
Density [g/cm³] approx.		1.0	1.10	1.08	1.15

Applications

Substrates	MDF, Particle Board	●	●	●	●
	Plywood	●	●	●	●
	Plastic (PVC,ABS, etc.)		●	●	●
	Alu (pre-treated,) Metals		○	●	●
	Insulation Materials (XPS, PU, etc.)	○	○	●	○
Surface Materials	Paper Finish Foil	●	●	●	●
	Thermoplastic Foil (PVC, PMMA, etc.)	○	●	●	●
	CPL	○	○	●	○
	Veneer, Thin (≤ 0.4mm)	●	●	●	●
	Veneer (> 0.4mm)	○	●	●	○

● > Recommended || ○ > Suitable



Solid Wood & Veneer

Technical Specifications	WB 1202.0	WB 1206.0	WB 1302.0	WB 1500.0 & H1105.0	UF 1959.0	PUR 5870.0	PowerNail K1	PowerNail K2	PowerNail MS	PowerNail Plus
Adhesive System	PVAc			EPI	UF E05-TSCA VI	PUR				
Open Time approx. [min.@ 20°C/50% RH]	3-5	1-3	5-7	8-10	8-10	20	5	45	12	7
Viscosity approx. [30°C mPa.s]	22,000	14,000	12,000	9,000	n.a.	6,000	Pasty	Pasty	Pasty	Pasty

Applications / Characteristics

Water Resistance			○	●	○	●	●	●	●	●
Gap Filling				○		○	○	○	○	●
Solid Wood Lamination	●	●	●	●	○	●	○	●		●
General Wood Assembly	●	●	●	●		●	●	○	●	●
Wood Bending			○	●	●	●	○	○	○	○
Veneering	○		○	○	●					
Cold Pressing	●	●	●	●		●	●	●	●	●
Hot Pressing	○	○	○	●	●		○	○	○	○
High-Frequency Pressing			○	●	●					○

● > Recommended|| ○ > Suitable

- PVAc and EPI Dispersions** General wood working white glues, in durability classes from D2 till D4.

Standard flat bonding, solid wood lamination, assembly with very fast setting times, and other common wood-working applications.
- Polyurethane** 1-component PU systems for efficient application without mixing.

Standard liquid prepolymer PU as well as fiber reinforced types for enhanced bonding strength and tolerance bridging.

PowerNail range in a variety of setting times from very fast to slow, and with very wide adhesion spectrum.
- Urea Formaldehyde Resins** One-shot UF powder, for easy mix with water; no special mixing equipment required. For all hot-press applications e.g. veneering and HF-presses. Low in formaldehyde; types to facilitate E1, E05, CARB2, JIS/JAS, TSCA VI emission classes are available



Flat Lamination & 3D Thermoforming



	Product	Applications / Characteristics
EVA	WB 1605.0	Lamination of thermoplastic and paper foil; hot or cold roller pressing
PUD	WB 1750.0 & H 1104.0	3D lamination of thermoplastic foils, heat resistance up to 70°C, with 5% hardener H4 up to 100°C
PUR	HM PU 9013.0	Reactive PU hotmelt for flat lamination of all kinds of board materials with various surface materials.
	HM PU 9015.0	Reactive PU hotmelt for flat lamination of MDF and MFC boards with foils and HPL.
	HM PU 9028.0	Reactive PU hotmelt with very high green strength for flat lamination of various materials such as honeycomb applications and parquet flooring.

	Product	Viscosity [mPa.s]	Open Time (approx.) [min.@ 20°C / 50%RH]	Field of Applications / Characteristics
1K PUR Prepolymer	PUR 5880.0	5,000 (at 21°C)	30	Production of sandwich panels, doors, etc.; application manually, with automatic rollers or nozzle system; very broad adhesion spectrum; suitable for fire doors
	PUR 5890.0	4,700 (at 21°C)	120	Production of sandwich panels, doors, etc.; manual application, with automatic nozzle system; very broad adhesion spectrum; long open time
Contact Adhesive	C 4250.0	450 (at 21°C)	>30	Contact adhesive, sprayable for efficient and even application. Very high heat resistance due to built-in crosslinker. Universally applicable, very broad adhesion spectrum
	C 4260.0.	400 (at 30°C)	>30	Toluene free contact adhesive, sprayable for efficient and even application. Very high heat resistance due to built-in crosslinker. Universally applicable, very broad adhesion spectrum.
Foam Adhesive	FG 4650.0	800 (at 21°C)	5-10	Foam adhesive, sprayable, high solids content for reduced odor and low emissions, fast setting suitable for high tension bonding
	FG 8450.0	2,000 (at 160°C)	3-5	Pressure-sensitive hotmelt adhesive for manual and automatic application systems. Suitable for assembly bonding of PU foam to foam, non-woven and textile materials, and other commonly used substrates

The role of sandwich constructions in the furniture and interior/exterior industry is increasing. They enable combinations of different material properties in the final product, allow the use of low-cost core materials, and reduce environmental impact when recycled cores are used. Bonding the layers provides high rigidity and load capacity. The growing variety of materials creates diverse requirements for adhesives, production processes, and final product properties.

ADiNO offers a range of adhesives to meet these requirements, including integrated solutions combining adhesive, application equipment, and technical support to ensure efficient and competitive production. The ADiNO® range for sandwich production includes both standard products and customized solutions.



Cleaners and Primers

	Product	Field of Applications / Characteristics
Cleaner	CL 4910.0	Versatile release agent to prepare workpieces and reduce residues
	CL 4951.0	Strong liquid cleaner for adhesive residues, dirt, oils or dust and alike
	CL 4955.0	Special manual cleaner for PU based glues
	CL 4980.0	Cleaner for EVA/PO hotmelt application units
	CL 9902.0	Powder cleaner for PU-hotmelt roller application units
	CL 9911.6	Flushing agent to flush and clean PU-hotmelt melting units and nozzle systems
Primer	P 4146.0	Primer for pre-treatment of thermoplastic materials (edging, wrapping and flat lamination foil)

Proper cleaning and maintenance enhance efficiency and bonding performance
For your best experience with ADiNO® adhesives we are offering specifically developed cleaners to compliment our product range.



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