



Wood and Building Elements



Who We Are?

Beyond The Limits...

With more than 30 years of experience in the industry, we work around the clock to provide seamless customer experience to many industries (i.e. Food and Beverage, Logistics and Transportation, Personal Care, Retail, Petroleum, Chemistry, Automotive, Furniture, Glass, Plastic, Packaging and Digital Media etc.) with a wide product range including in both business divisions including Self-adhesive products and chemistry.

These product ranges are as follows:

Self-Adhesive Products

- Pressure-sensitive Label Materials
- Graphics Products and Solutions

Inks and Coatings

- UV
- Water-based

Textile Lamination

Flexible Packaging Adhesives

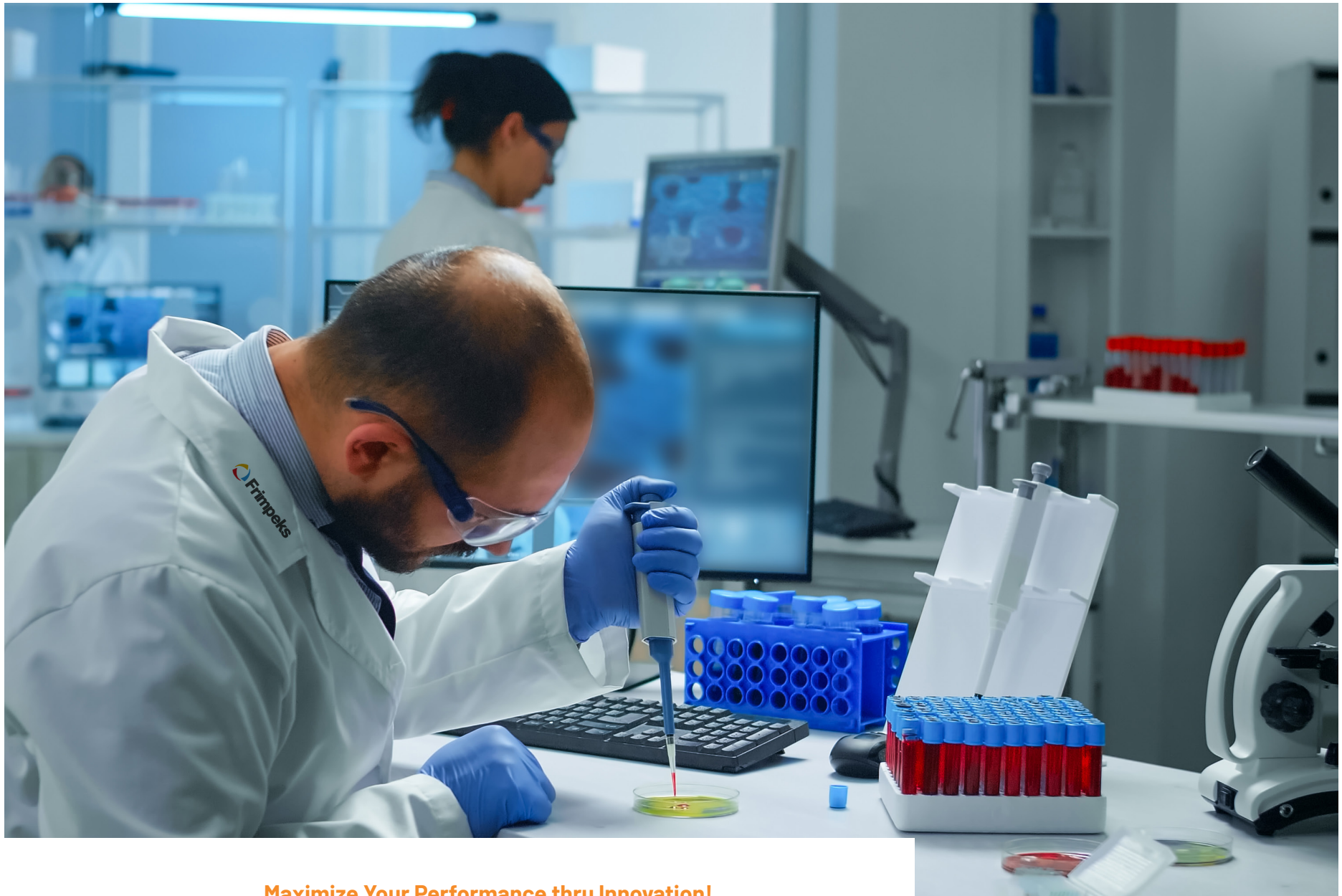
Industrial Adhesives

- Flexible Packaging Laminating
- PUR Hotmelt
- Liquid PU
- Water-based Acrylic
- Polyurethane Dispersions

Industrial Coating Chemicals

- Wood
- Plastic
- Glass

Our Products and Services



Maximize Your Performance thru Innovation!



**Chemical-Physical
Analysis**



**Tailor-made
Consulting**



**Quality
Control**



**Product
Certification**

**Performance
Lab**



Edgebanding with MELTPEKS

For many years, edgebanding of wood-based panels with a variety of edge bands has been a standard practice in the furniture industry. Meeting the quality demands for a zero-glue line and other fundamental requirements presents specific challenges for manufacturers.

In modern, high-quality furniture production, the quality of edgebanding has become a critical factor in evaluating the overall quality of the entire furniture component. The edge banding materials available on the market are diverse, including plastic, metal, and wood, each serving different applications.

Edge banding is commonly used for:

- Kitchen and bathroom furniture
- Living room furniture
- Bedroom furniture
- Contract furniture
- Laboratory furniture

Some of the major material combinations for edge banding include:

- MDF boards with PVC / ABS edges, or veneer
- Chipboard with PVC / ABS edges
- Sandwich panels with PVC / ABS edges, or veneer

Do you need guidance on which type of adhesive to use or how to optimize your processes? Our expert sales and technical team is highly experienced with standard edge banding machines and is ready to provide tailored advice to ensure optimal results.

Product Portfolio at a Glance

PRODUCT NAME	PRODUCT BASE	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE at Roller	CHARACTERSTICS AND APPLICATIONS
MELTPEKS 100	EVA Hot Melt	90000 ± 25000 mPa.	180°C - 200°C	Edgebanding as from feedrates of 15 m/min on throughfeed machines Edging material: veneer, melamine, polyester, HPL*, PVC*, ABS*, PP* *Suitability depends on the individual characteristics of the edging material and how it is primed.
MELTPEKS 101	EVA Hot Melt	90000 ± 22000 mPa.	180°C - 200°C	Edgebanding as from feedrates of 15 m/min Edging material: melamine, polyester, HPL*, PVC*, ABS*, PP*
MELTPEKS 102	EVA Hot Melt	70000 ± 20000 mPa.s	180°C - 200°C	Edgebanding as from feed rates of 12 m/min Counter Edgebanding as from feed rates of 6 m/ min. Edging material: solid wood, veneer, melamine, polyester, HPL*, PVC*, ABS*, PP* *Suitability depends on the individual characteristics of the edging material and how it is primed.
MELTPEKS 103	EVA Hot Melt (Transparent)	90000 ± 22000 mPa.s	180°C - 200°C	Edgebanding as from feed rates of 12 m/min through feed machines Edging material: solid wood, veneer, melamine, polyester, HPL*, PVC*, ABS*, PP* Soft forming even with difficult-to-bond profiles Suitable for processing centers (BAZ) with direct application *Suitability depends on the individual characteristics of the edging material and how it is primed
MELTPEKS 104	EVA Hot Melt	30000 ± 15000 mPa.	130°C - 160°C	"Specifically designed for manually operated edge banders, as from feed rates of 4 m/min Edgebanding by applying the adhesive directly to the edging material Edging material: veneer, melamine, PVC*, ABS*, PP* up to approx. 1 mm thickness* *Suitability depends on the individual characteristics of the edging material and how it is primed

Our Services

Custom Adhesive Formulation

- Tailor-made adhesive solutions to meet specific industry needs and applications.
- Onsite consultation to understand your unique requirements.

Training

- Comprehensive training programs to the proper use and application of our adhesive products.
- Hands-on sessions to ensure optimal performance and safety.

Testing and Evaluation

- Onsite testing services to evaluate the performance of adhesives in your specific applications.
- Detailed reports and recommendations for improvements or adjustments.

Process Optimization

- Onsite analysis of your production processes to identify areas where adhesive application can be optimized.
- Recommendations for efficiency improvements and cost savings.

Customized Packaging Solutions

- Tailored packaging options to suit your specific adhesive needs.
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Profile Wrapping Adhesives

In the furniture industry, profile wrapping is a well-established application for surface treatment of components such as furniture parts, skirting boards, wall and ceiling panels, door components, and various other profiles. A wide selection of materials can be used for profile wrapping, including thermoplastic foils (PVC, PP, PET), paper, veneer, and CPL/HPL.

The Polyurethane Reactive Hot Melt product range, specifically designed for profile wrapping applications, meets the highest quality standards and addresses emerging trends in the furniture and wood industries.

The **PURPEKS 100** series has already been introduced to the market, setting a benchmark for quality in this sector and continuing to meet the evolving needs of profile wrapping applications.

Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS 102	25.000 - 45.000	130 - 150°C	Very Short Open time Very High inital Tack With memory force (0.40 mm HG PVC / CPL*)
PURPEKS 124	35.000 - 50.000	130 - 150°C	Medium open time Fast setting Very High initial strength All purpose with type of PVC / PP, finish Folio, CPL*
PURPEKS 125	20.000 - 30.000	120 - 140°C	Long open time Fast setting High initial strength All purpose with thin PVC / PP, finish Folio
PURPEKS 126	25.000 - 40.000	120 - 140°C	Medium open time Fast setting High initial strength All purpose with type of PVC / PP, finish Folio

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS CLEANER 920	~10.000	100°C to 170°C	Cleaning agent for all polyurethane hotmelts in the uncured state
PURPEKS CLEANER 930	~10.000	100°C to 170°C	Cleaning agent for all polyurethane hotmelts in the uncured state

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Flat Lamination Adhesives

Flat lamination applications are rapidly gaining traction in the wood and furniture industry, driven by the increasing demand for advanced adhesives in manufacturing processes.

In modern furniture production, wood-based panels are often surface-laminated with a wide variety of materials, including decorative foils (finish foils), veneers, and thermoplastic foils such as PVC, PET, PP, and ABS. Additionally, materials like CPL and HPL are commonly used. These laminated panels are then applied across various sectors, from kitchens and home furniture to flooring.

The **PURPEKS 200** series is specifically designed for flat lamination applications on MDF, chipboard, solid wood, PVC, and aluminum, as well as for coating applications on PVC, PP, PET, acrylic surfaces, and CPL/HPL.

Additionally, we offer specialized Polyurethane Reactive Hot Melt adhesives for the building industry, perfect for producing sandwich panels, installation panels, and exterior garage doors.

Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE at Rolle\	CHARACTERSTICS AND APPLICATIONS
PURPEKS 204	10.000 - 15.000	120 - 140°C	Long Open time High inital Tack All purpose for PVC / CPL / Acrylic Sheet
PURPEKS 205	10.000 - 15.000	120 - 140°C	Long Open time High inital Tack Lamination of metal , plastics and textile
PURPEKS 206	10.000 - 15.000	120 - 140°C	Long Open time High inital Tack All purpose for PVC / CPL / Acrylic Sheet
PURPEKS 209	10.000 - 20.000	120 - 150°C	Medium open time Fast setting High initial strength All purpose with thin PVC / PP / PET PVC foil to PVC panel lamination
PURPEKS 211	10.000 - 20.000	120 - 150°C	Short open time Fast setting High initial strength All purpose with thin PVC / PP/ PET
PURPEKS 218	12.000 - 22.000	120 - 150°C	Short open time Fast setting High initial strength All purpose for HG PVC / PVC / PP / PET Very Good Surface Quality

PRODUCT Name	Technical Data	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS CLEANER 910	~10mPa.s (100 °C)	100°C to 160°C	Liquid cleaning agent for Steel rollers for flat lamination units
PURPEKS CLEANER 940	"Softening Point, Kofler, °C ~50 Density, g/cm³ ~1.22"	100°C to 170°C	" Powder cleaning agent for all polyurethane hotmelts in the uncured state Suitable for silicone and metal roller application"

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PVC Window Profile Wrapping Adhesives

Lamination applications in window profile manufacturing are characterized by an expanding variety of substrates, decorative materials, and specially developed foils for exterior use, along with increasing production capacity. These challenges can only be addressed with the right adhesive solutions.

Adhesives and primer systems are critical for window profile wrapping, as these profiles are subjected to harsh weather conditions over time. To ensure strong bonding, profiles are treated with a primer just before the lamination process. Our specially formulated primer systems are designed to meet a range of needs and are easy to apply using felt or vacuum application technologies. These primers include fluorescent (UV) content, which allows for easy verification of application areas.

The **PURPEKS 300** series has set a market standard for quality. These adhesives offer exceptional resistance to aging (hydrolysis/thermolysis), excellent peel strength, and outstanding heat and cold resistance, making them suitable for nearly all types of PVC and aluminum profiles.

Moreover, the RAL 716 /1 approved **PURPEKS 300** series provides a comprehensive product range to reliably bond all types of profiles and foils used in the window profile market. We deliver high-quality products that meet the ever-growing demands of the industry.

Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS 301	30.000 ± 7.500	130 - 150°C	Medium Open time High inital Tack PVC Profile / WPC Profile / Wood based Profile
PURPEKS 302	20.000 ± 7.500	120 - 140°C	Short Open time Higher inital Tack Fast Setting Time PVC Profile / WPC Profile
PURPEKS 303	35.000 ± 7.500	130 - 150°C	Short open time Very Fast setting Very High initial strength Higher hydrolisis Resistance with all type of PVC foils

PRODUCT Name	BASIS	APPLICATION AREA	CHARACTERSTICS AND APPLICATIONS
PURPEKS PRIMER 350	Solvent Based	Pretreatment of PVC Wood Plastic Composite Surfaces	Primer for bonding with PUR hotmelt adhesives, e.g. PURPEKS 300 series

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS CLEANER 920	~10.000	100°C to 170°C	Cleaning agent for all polyurethane hotmelts in the uncured state
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PUR HM For Edge Banding Applications

Edge banding of wood-based panels using a variety of edge bands has become a standard practice in the furniture industry. In today's competitive market, the quality of edge banding is increasingly viewed as a key indicator of the overall quality of furniture components. End customers now expect a thin, nearly invisible glue line that delivers flawless results.

PUR hot melt adhesives are designed to meet the highest standards for edge banding, offering a zero-bond line appearance. They also provide exceptional heat resistance (-30°C to $+150^{\circ}\text{C}$), moisture resistance, and chemical resistance, making them ideal for demanding environments like kitchens and bathrooms.



Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	
PURPEKS 401	75.000±25.000	130 - 150°C	Very fast setting High initial strength Very high heat resistance (> 150 °C) and cold flexibility Excellent water resistance Clean working Particularly suitable for nozzle application
PURPEKS 401 White	75.000±25.000	130 - 150°C	Very fast setting High initial strength Very high heat resistance (> 150 °C) and cold flexibility Excellent water resistance Clean working Particularly suitable for nozzle application
PURPEKS 402	75.000±25.000	130 - 150°C	Very fast setting High initial strength Very high heat resistance (> 150 °C) and cold flexibility Excellent water resistance Clean working

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE
PURPEKS CLEANER 920	~10.000	100°C to 170°C
PURPEKS CLEANER 930	~10.000	100°C to 170°C

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Very High Bond Strength
Superior Moisture and Chemical Resistance
Excellent Heat Resistance
• EVA hotmelts can take up to 80°C.
• PUR bonds can withstand greater than 150°C.
Reduced Consumption
Adhesion Versatility
Low Working Temperature

- Standard working temperatures are between 130°C - 150°C.

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PUR Dispersions

3D thermoforming is a cutting-edge adhesive application, particularly well-suited for high-quality kitchen furniture front panels. The **AQUAPEKS 1100** Series provides top-tier Polyurethane Dispersion-based adhesives specifically formulated for 3D applications, ensuring the reliability and consistency of your production processes. Key benefits include outstanding heat resistance, even at low activation temperatures, as well as superior surface quality, making it an ideal choice for demanding production environments.

If your goal is to produce lighter products or improve the quality, efficiency, and sustainability of your furniture components, the **AQUAPEKS 1100** Series is the perfect solution. Within our Wood and Building Element Business Unit, this series is designed to bond a wide variety of wooden parts for diverse applications in the furniture industry.

By staying attuned to shifting market dynamics and evolving consumer trends, we are able to develop innovative solutions and new products that meet the ever-changing needs of the industry.



Product Portfolio at a Glance

AQUAPEKS 1C				Suitable for foils based on				
Product Name	"Viscosity Brookfield* (mPa·s)"	" Maximum storage time pre-coated MDF front (hours)"	"Activation temperature (°C) at least "	PVC	ABS	PET	HG PVC	Remarks
AQUAPEKS 1101	1,200 – 2,000	1 days	60°C	++	+	+	++	Universal, suitable for all press systems, especially recommended for vacuum presses and door skin
AQUAPEKS 1102	1,800 – 3,000	2 days	55°C	++	++	++	++	Especially recommended for presses without membrane, lowest activation temperature, for automatic sprayers, highest heat resistance, particularly for High Gloss and thin foils

++ highly recommendable
+ limited suitable

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Water-based Adhesives for Wood Assembly



With over 30 years of research and development, combined with extensive production experience, our diverse range of Water-based Acrylic / PVA products is crafted to meet the highest customer quality standards. As one of the most trusted water-based adhesive manufacturers in the industry, Frimpeks has earned a reputation for reliability and innovation.

Our water-based adhesives are trusted by various industries for their ability to deliver superior quality and cost-effective solutions. We are also committed to reducing Volatile Organic Compounds (VOCs), which helps enhance Safety, Health, and Environmental (SHE) conditions, while contributing to a more sustainable, eco-friendly future.

The **AQUAPEKS** series of Acrylic / PVA adhesives are ideal for producing a wide range of products, including books, labels, packaging, wood, and composite materials. As part of our Wood and Building Elements Business Unit, we provide wood assembly adhesives that meet stringent quality standards (EN 204 - D2 / D3 / D4), suitable for continuous paper lamination processes.

Product Portfolio at a Glance

Product Name	Viscosity Brookfield* mPa.s .	Open time (1) in min. Joint bonding (beech/beech) Glue amount of 150g/m² approx	Pressing time1) in min. Surface bonding (chipboard/HPL)		Minimum film formation temperature (chalk point)	Characteristics
			"Glue amount 100g/m² from"	" Glue amount 200g/m² from"	approx	
AQUAPEKS WA 8100	12,000 to 15,000	~8	≥10	≥15	+5°C	Standard glue for wood assembly bonding of softwood; lamination of HPL/CPL
AQUAPEKS WA 8200	12,000 to 15,000	~10	≥15	≥25	+5°C	Giving water resistance (D2 as per EN 204), solid wood bonding; gluing of doors and staircases; veneer gluing ,Lamination of HPL/CPL
AQUAPEKS WA 8300	13,000 to 18,000	~10	≥15	≥25	+5°C	Giving high water resistance (D3 as per EN 204), with crosslinker AQUAPEKS 1500 CATALYST (5%) D4 as per EN 204; solid wood bonding; edge gluing in throughfeed panel composers; gluing of doors and staircases Lamination of HPL/CPL
AQUAPEKS WA 8310	15,000 to 18,000	~10	≥15	≥25	+5°C	Giving high water resistance (D3 as per EN 204), with crosslinker AQUAPEKS 1500 CATALYST (5%) D4 as per EN 204; solid wood bonding; edge gluing in throughfeed panel composers; Lamination of HPL/CPL Gluing of doors and staircases
AQUAPEKS WA 8400	4,000 to 10,000	~7	≥15	≥25	+5°C	One-component D4 glue Joints where increased water and heat resistance is required Gluing solid wood Doors and stairs windows, window scantlings, composite window elements

The data shown in the table should be taken as a guideline and is based on a wood humidity of 8 – 12%, 20°C room and material temperature, 65% relative air humidity and 0.5 N/mm² pressure.

* Joint bonding beech/beech
** Surface bonding chipboard/HPL

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Liquid PU Adhesives

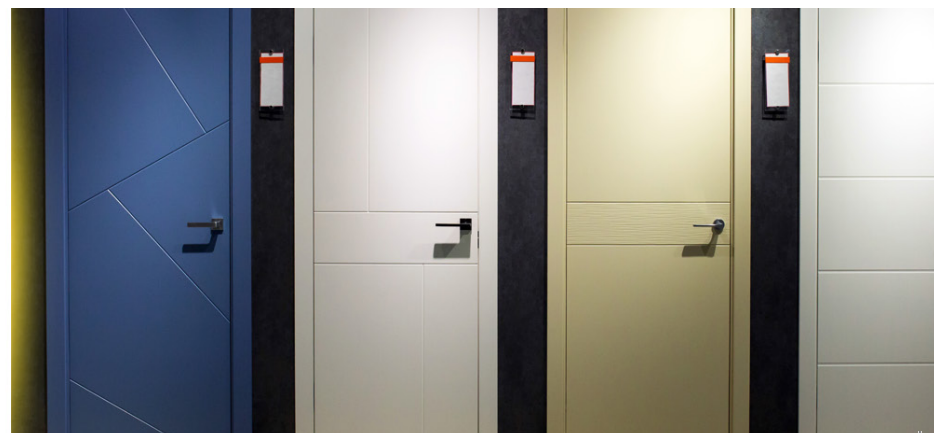
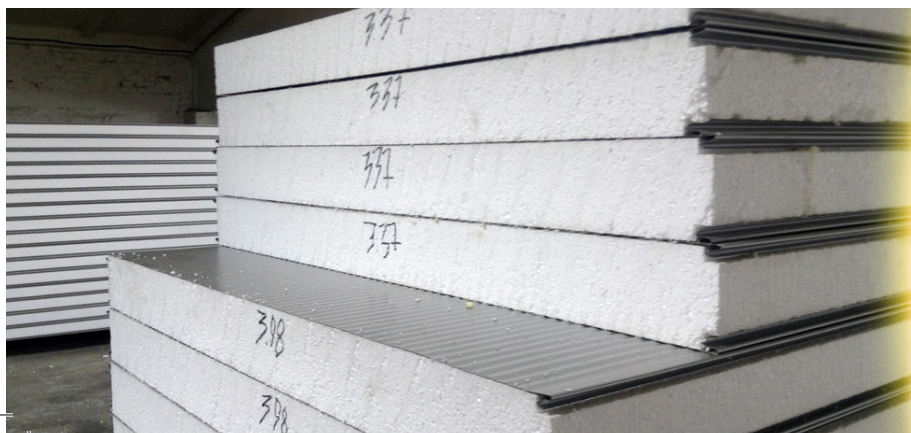
Our Liquid Polyurethane Adhesives offer exceptional adhesion strength and cure quickly on a variety of surfaces. They are formulated for easy application, providing a strong, cost-effective, and aesthetically pleasing bond with minimal surface consumption.

These adhesives maintain their bonding strength in extreme temperatures, ranging from -50°C to 80°C , and are highly resistant to water. They also withstand abrasion, temperature fluctuations, and pressure, making them ideal for diverse environments. As part of the polyurethane family, our adhesives excel in a wide range of industries. Notably, they offer excellent adhesion in both wet and dry conditions, ensuring reliable performance on surfaces with or without moisture.

With these capabilities, our products are the go-to solution for industries that require bonding of various materials, including wood, glass, metal, plastic, and MDF.

Some of the key sectors where our products are applied include:

Building Industry: Polyurethane adhesives are widely used in furniture manufacturing, particularly in facilities utilizing composite materials and panels. They are also essential in decorative woodworking, wooden wrought iron construction, and the creation of indoor staircases and windows. In essence, wherever wood is involved, liquid PU adhesive is a critical component.



Product Portfolio at a Glance

Product Name	Application Area	Viscosity (Brookfield) [mPas], 20°C	Density [g/cm³]	Open Time 23°C	Initial Strength 23°C	Final Strength 23°C
PURPEKS 3000.5	Sandwich Panel Rockwool Panel	3,000 ± 1000	1.1 - 1.25	5 ± 1 minutes	8 ± 1 minutes	1 day
PURPEKS 3000.30	Sandwich Panel Rockwool Panel	3,000 ± 1000	1.1 - 1.25	30 ± 2.5 minutes	75 ± 10 minutes	1 day
PURPEKS 3000.45	Sandwich Panel Rockwool Panel	3,000 ± 1000	1.1 - 1.25	45 ± 2.5 minutes	90 ± 10 minutes	1 day
PURPEKS 3100.30	Engineered Woods Glulam / CLT / Finger Joint	7,000 ± 2000	1.1 - 1.20	30 ± 2.5 minutes	75 ± 10 minutes	1 day
PURPEKS 3200.30	EPS & XPS Panel & PVC Door	5,000 ± 1,000	1.1 - 1.25	30 ± 2.5 minutes	75 ± 10 minutes	1 day
PURPEKS 3200.45	EPS & XPS Panel & PVC Door	5,000 ± 1,000	1.1 - 1.25	45 ± 5 minutes	120 ± 10 minutes	1 day
PURPEKS 3200.75	EPS & XPS Panel & PVC Door	5,000 ± 1,000	1.1 - 1.26	75 ± 5 minutes	210 ± 10 minutes	1 day
PURPEKS 3220.30	EPS & XPS Panel & PVC Door	5,000 ± 1,000	1.1 - 1.25	30 ± 2.5 minutes	75 ± 10 minutes	1 day
PURPEKS 3220.45	EPS & XPS Panel & PVC Door	5,000 ± 1,000	1.1 - 1.25	45 ± 5 minutes	120 ± 10 minutes	1 day

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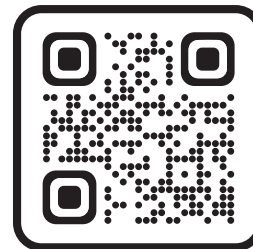
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✉ info@frimpeks.com

🌐 frimpeks.com