



Profile Wrapping Adhesives

In the furniture industry, profile wrapping applications on the surface of furniture components, skirting boards, wall and ceiling panels, door components, and all other types of profiles are well known. Profile wrapping materials can be selected from a wide variety of thermoplastic foils (PVC, PP, PET), paper, veneer, CPL / HPL. The Polyurethane Reactive Hot Melt product range, specially designed for profile wrapping applications, meets all quality requirements and new trends at the furniture and wood industry.

PURPEKS 100 series have been already developed on the market and set quality standards in the respective market.

Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE	CHARACTERSTICS AND APPLICATIONS
PURPEKS 102	35.000 - 45.000	130 - 150°C	"Very Short Open time Very High initial Tack With memory force (0.40 mm HG PVC / CPL)"
PURPEKS 116	15.000 - 30.000	120 - 140°C	"Short open time Fast setting High initial strength All purpose with thin PVC / PP, finish folio"
PURPEKS 117	20.000 - 35.000	120 - 140°C	"Long open time Fast setting High initial strength All purpose with thin PVC / PP, finish folio"
PURPEKS 124	40.000 - 60.000	130 - 150°C	"Medium open time Fast setting High initial strength All purpose with type of PVC / PP, finish Folio, CPL"

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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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.
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Testing and Evaluation

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PVC Window Profile Wrapping Adhesives

Lamination applications in window profile manufactures are categorized by a growing variety of substrates and decorative materials, specially developed foil types for exterior area and increasing production capacity. These challenges can only be overcome with suitable adhesive products.

Adhesives and primer systems are used for window profile wrapping with specific technical properties, as they are permanently exposed very difficult weather conditions.

To get the bonding results, the profiles are treated with a primer immediately before being laminated. Our special primer systems are formulated to suit a range of different needs and are very easy to apply with felt or vacuum application technologies. They include fluorescent (UV content), making it is easy to check how and where they are applied.

PURPEKS 300 series has already set a quality standard on the market. They have excellent aging resistance (hydrolysis/thermolysis resistance), peeling value, and heat & cold resistance for almost all PVC types and aluminum profiles.

In addition, **PURPEKS 300 series** offers a full product range for reliably bonding all kinds of profiles and foils used in this market. We provide top-quality products that fulfill the constantly rising market demands.

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 initial Tack PVC Profile / WPC Profile / Wood based Profile"
PURPEKS 302	20.000 ± 7.500	120 - 140°C	"Short Open time Higher initial 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

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Flat Lamination Adhesives



Flat lamination applications are becoming popular more and more in the wood and furniture industry with constantly increasing requirements for manufacturing processes used adhesives.

In modern furniture manufacturers, wood-based panels are surface-laminated with varied materials. Decorative foils (finish foiles), veneers, as well as thermoplastic foils (PVC, PET, PP, ABS), CPL, and HPL, are used frequently. The finished panels are positioned in numerous application areas, from the kitchen to home furniture and flooring.

PURPEKS 200 series are specially designed for flat lamination applications on MDF, chipboard, solid wood board, PVC, and Aluminium as well as for coating applications on PVC, PP, PET, Acrylic surfaces, and CPL / HPL.

In addition, we are offering unique Polyurethane Reactive Hot Melt for building industry to produce sandwich and installation panel, exterior garage doors.

Product Portfolio at a Glance

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	WORKING TEMPERATURE at Roller	CHARACTERSTICS AND APPLICATIONS
PURPEKS 204	10.000 - 15.000	120 - 140°C	"Long Open time High initial Tack All purpose for PVC / CPL / Acrylic Sheet"
PURPEKS 205	10.000 - 15.000	120 - 140°C	"Long Open time High initial Tack Lamination of metal , plastics and textile"
PURPEKS 209	10.000 - 20.000	120 - 150°C	"Medium open time Fast setting High initial strength All purpose with thin PVC / PP"
PURPEKS 210	12.000 - 22.000	120 - 150°C	"Medium open time Fast setting High initial strength All purpose for HG PVC / PVC / PP / PET"
PURPEKS 211	12.000 - 22.000	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	"Medium open time Fast setting High initial strength All purpose for HG PVC / PVC / PP / PET"

PRODUCT Name	VISCOSITY BROOKFIELD 140°C MPAS	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/cm ³ ~1.22	100°C to 170°C	Powder cleaning agent for all polyurethane hotmelts in the uncured state. Suitable for silicone and metal roller applications

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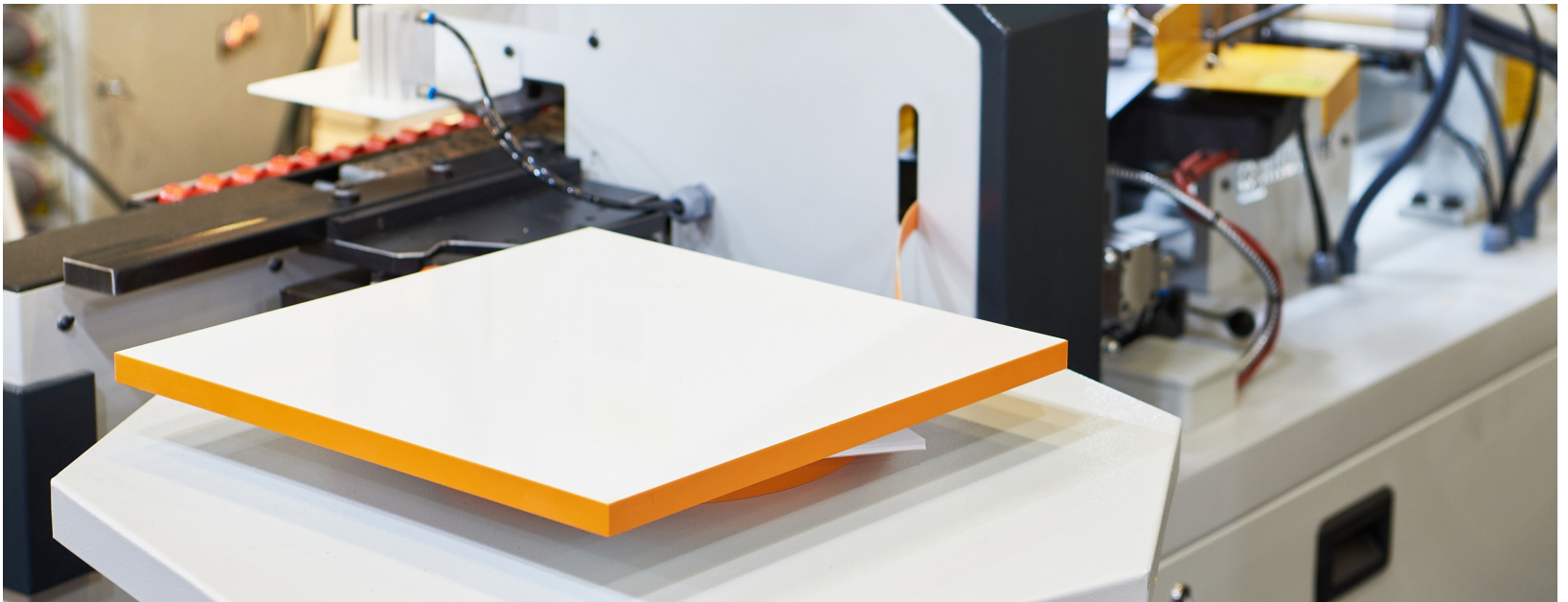
- Tailored packaging options to suit your specific adhesive needs.
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PUR HM For Edge Banding Applications

The edge banding of wood-based panels with a variety of edge bands has been already established a practice in the furniture industry. In modern market, the high quality of the edge banding is increasingly becoming a key criterion for evaluating the quality of the entire furniture components. The end customer demands a thin glue line that is hardly visible and excellent.

PUR hot melt adhesives meet the highest demands regarding a zero-bond line appearance as well as very high heat resistance (-30°C to $+150^{\circ}\text{C}$), moisture resistance, and chemical resistance in 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
PURPEKS 401 White	75.000 ± 25.000	130 - 150°C
PURPEKS 402	75.000 ± 25.000	130 - 150°C

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 an innovative adhesive application that is used for high-grade kitchen furniture front panels. **AQUPEKS 1100 Series** offer clean quality Polyurethane Dispersion based adhesives for 3D applications that support the reliability of your production processes. Due to be some of the advantages, e.g. high heat resistance even at the lowest activation temperature and good enough surface quality as well.

If you're willing to produce lighter products and structures or improve the quality, efficiency, and sustainability of your furniture components, in Wood and Building Element Business Unit, **AQUAPEKS 1100 Series** can be used to bond a variety of wooden parts in many applications in the furniture industry.

We follow the changing market dynamics driven by consumer trends, and we create innovative solutions and develop new products.



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	2,000 – 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



Our varied Water-based Acrylic / PVA product ranges have been developed over 30 years of R&D by the production experiences to fulfil customer's quality requirement since Frimpeks is one of the trusted water-based adhesive manufacturers in the market.

Trusted by many industries, our water-based adhesives provide better final quality and total cost advantages for our partnership. In addition, we are supporting lower Volatile Organic Compounds (VOCs) to improve SHE conditions and sustainability for the green world.

Our **AQUAPEKS** product series Acrylic / PVA Adhesives are a particularly good choice to produce many different products such as books, labels, packaging, wood, and composite materials. As Wood and Building Elements Business Unit, we are introducing the type of wood assembly adhesives that fulfill quality requirements (according to EN 204 - D2 / D3 / D4) and paper lamination by continuous lines.

Product Portfolio at a Glance

Product Name	"Viscosity Brookfield* mPa·s."	"Open time (1) in min. Joint bonding (beech/beech) Glue amount of 150g/m ² approx"	"Pressing time1) in min. Surface bonding (chipboard/HPL)"		"Minimum film formation temperature (chalk point)"	Characteristics
			"Glue amount 100g/m ² from"	" Glue amount 200g/m ² from"		
AQUAPEKS Wood Assembly					approx	
AQUAPEKS WA 8100	12,000 – 15,000	~8	≥10	≥15	+5°C	"Standard glue for wood assembly bonding of softwood; lamination of HPL/CPL"
AQUAPEKS WA 8200	12,000 – 15,000	~10	≥10	≥20	+5°C	"Giving water resistance (D2 as per EN 204), solid wood bonding; gluing of doors and staircases; veneer gluing."
AQUAPEKS WA 8300	12,000 – 18,000	~10	≥10	≥20	+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 compositers; gluing of doors and staircases"

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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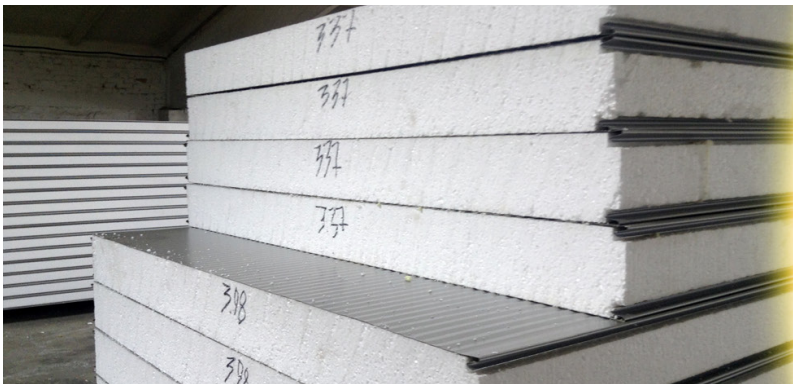
Liquid PU Adhesives

Our Liquid Polyurethane Adhesives have high adhesion strength and cure quickly on the surfaces where they are applied. It is formulated with a simple application, strong, economical, aesthetic, and balanced structure with a very small amount of consumption on the surface.

Our adhesives maintain their adhesion properties between -50°C and 80°C temperatures and have high water resistance. It is resistant to factors such as abrasion, temperature, and pressure brought about by climatic or usage areas and is used in many sectors such as the polyurethane family to which it belongs. Our products, which have high adhesion properties in wet and aqueous environments, can be applied safely on surfaces with or without moisture. With these features, it is an unrivaled product to meet the needs in many sectors where many different materials such as wood, glass, metal, plastic, and MDF are required to adhere.

Some of the sectors where our products are used thanks to these features;

In Wood Industry, polyurethane adhesives are used extensively in furniture production facilities where composite materials and panels are also used a lot, in decorative woodworking, wooden wrought iron construction, and indoor window staircase house construction: In short, wherever there is wood, there is liquid PU adhesives.



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 Load Bearing / 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 ± 2.5 minutes	90 ± 10 minutes	1 day

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