

YOUR ADHESIVE PARTNER

Whatever the requirements are - we will safely bond it and ensure a personal and longlasting partnership.







MADE IN GERMANY

A partner you can rely on

EUKALIN Spezial-Klebstoff Fabrik GmbH is a medium-sized company with more than 120 years of experience in development, production and distribution of high-quality adhesives. Our customers from the paper and film processing industry appreciate in particular our quality and high flexibility. Our focus is the long-term development of our business and customer relations. With our team of sales managers and our technical department we are pleased to support you on site and advise you on the various application possibilities of our adhesives. Since the foundation of our family owned business, sustainability and environmental protection have been essential to our success.

WE ARE CLOSE BY AND OUR SUPPORT IS WORLDWIDE.



We are your adhesive partner **About us**

Our family business was founded in 1904 in Aachen, Germany by **Gebrüder Wachler KG** and was renamed **EUKALIN** in 1988. Today EUKALIN is managed in the fourth-generation and distributes high-performance EUKALIN adhesives to customers in more than 127 countries worldwide.

As a reliable partner we speak your language and support you with efficient processes from consulting to product development. Whether it is a new adhesive formulation or a logistic solution we are committed to a long-term, **mutually beneficial relationship** that are tailored to meet your needs. You can rely on us!

1904

Founding of the company **Gebrüder Wachler KG**

1945

Reconstruction and focus on **adhesive production**

1992

Construction of a new production facility & relocation from Aachen to **Eschweiler**

2000

Doubling of production capacity

2008

Founding of **EUKALIN Corp.** in Memphis, Tennessee (USA)

2015

Expansion of the logistics and production area

2022

Acquisition of Adhesives Specialists based in Allentown, Pennsylvania as part of an asset deal (USA)

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Excellent in all categories What makes us special?

Our most important connection is the connection to you. We think ahead and support you with our experts who personally advise and ensure high-quality products.





We are an independent family business.

Values and sustainability are important to us.

Personal partnership Our daily motivation are our clients. That's why

Our daily motivation are our clients. That's why you are our top priority.

Personal service

Our business approach is based on direct and personal customer service with utmost flexibility and longterm relationship.

Reliable quality

We know that our customers count on us.

Quality and reliability are self-evident.

Innovative technologies

We are technology-driven. Developing of new products and the setting of standards have top priority for us.

Individual solutions

We develop individual adhesives precisely tailor-made to your application. We are looking forward to your requests.



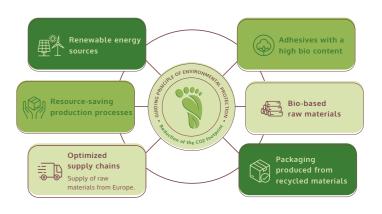
For the protection of our environment.

Sustainability – Our promise for a green future

Environmental protection is not a trend!

Sustainability is not a trend for us, but a commitment. We are proud to do our part to protect our environment and leave an intact world for future generations. At EUKALIN, we are committed to developing high-quality and environmentally friendly special adhesives that are adapted to the needs of our customers using the latest technologies. At the same time, we are committed to sustainability and aim to act responsibly in all aspects of our business.





Innovation not just in our adhesives

Sustainability as an increasingly important guiding principle for our company.

At EUKALIN, we not only focus on modern special adhesives, but also on a sustainable future. Our concept of sustainability is not limited to resource-saving, environmentally friendly production processes and products. We are also constantly working on improving sustainability in all parts of our company. With the construction of our new photovoltaic system, we are reaffirming our commitment to renewable energy sources with the aim of reducing our ecological footprint. Our ISO 14001 certification also reaffirms our commitment to sustainability!

Your environmentally friendly requirements
- our sustainable solutions!





www.eukalin.com



Dispersion Adhesives

Decades of experience and continuous development

Balanced adhesion and cohesion

Optimized processing properties

Solvent-free

EUKALIN dispersion adhesives – standard adhesive or tailored to your needs

Also known as cold glue or white glue, these adhesives are used for various products. With our innovative R&D and many years of experience we do not only have a broad product portfolio of dispersions at our disposal, we also continue to develop them and, if required, tailor the adhesives to **your needs**. We work closely together with machine and application equipment manufacturers (OEM) to adapt the running behavior of our products to the **newest and most innovative conditions**. Your adhesive should set faster, have better layflat properties or be required in a special viscosity? Please get in touch with us!

Your Adhesive **Partner** — 13

Hotmelts

Solv

Solvent-free



Water and moisture resistant



100 % solid matter

EUKALIN hotmeltsfrom APAO to EVA and PE

Hotmelts are binding agents which are applied as a molten mass and obtain their adhesive strength through solidification or crystallization. These 100% solid thermoplastics bind only physically and are **highly resistant** to water and moisture. In addition to the melting properties, special attention is paid to the wetting properties of the melt and the curing properties of the amorphous or semi-crystalline formulations.

EUKALIN hotmelts are **solvent-free**, **consist of 100% of solid matter** and **offer outstanding processing properties**.

Adapted to your line speed and depending on the respective application, EUKALIN adapts parameters such as the open or setting time especially for you.



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Hotmelt Pressure Sensitive Adhesives

Permanent tack

100 % solid matter

Solvent-free (low TVOC)

High adhesion

Water and moisture resistant

Time saving =

EUKALIN hotmelt pressure sensitive adhesives – tailored for every application

Hotmelt pressure sensitive adhesives (HMPSA) differentiate from "standard" hotmelts by **their almost infinitely long open time** - they are **surface sticky**. PSA hotmelts are composed of thermoplastic polymer mixtures which are applied melted and form a bond, seal or permanent adhesive film during cooling - without additional thermal, chemical or photochemical activation. The 100% solids content eliminates the need for complex drying or extraction of solvents.

EUKALIN hotmelt pressure sensitive adhesives are known for their **high adhesive strength**. They **adhere to polar, non-polar or partly moist surfaces** and are **resistant to water and moisture**. In addition, EUKALIN HMPSAs have low TVOC (total volatile organic compounds), can be applied with low application weights and, depending on the application, they can be removed from the substrates without leaving residues due to their sufficiently high cohesion.

Your Adhesive Partner — 17



Since 1904 our adhesives and business partnerships distinguish themselves by a very strong bond. You will benefit from knowledge of our technical experts and from a smooth order processing. No matter whether our experts develop for you in the laboratory, deliver individual purchase quantities or support you on site - you can rely on us anytime and anywhere.

UV-C Hotmelts

Good chemical resistance

High transparency

Free of migrating photoinitiators

High water and moisture resistance

High heat resistance

100 % solid matter

EUKALIN UV-C HMPSA - efficient and adaptable

UV-C-curable hotmelt pressure sensitive adhesives (UV-C HMPSA) are - according to their name - pressure-sensitive adhesives whose **internal strength (cohesion)** can be **significantly increased** by UV radiation (mercury lamp). These mainly acrylate-based formulations already replace solvent-based pressure-sensitive adhesives in many applications. In addition to the **advantages of a hotmelt adhesive system** in comparison to water-based or solvent-based adhesives, UV-C HMPSA give the **benefits of an acrylate-based adhesive** while subsequent UV-curing provides additional **thermal and chemical resistance** – without the use of an inert gas atmosphere.

UV-C HMPSAs from EUKALIN are **highly transparent**, **resistant to a variety of chemicals / plasticizers** and are also suitable for sensitive applications due to covalent-bonded photoinitiators.

EUKALIN offers tailor-made UV-C HMPSA for applications such as clear-to-clear and wash-off labels, tapes and specialities.



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PUR Hotmelts





Chemical curin



High adhesion

High resistance to water, moisture and chemicals

Polyurethane-based (PUR) hotmelt adhesives are applied as a melt like other hotmelt adhesives. The setting and strength build-up takes place in two steps: First by cooling the melt purely physically and then followed by moisture-initiated chemical crosslinking of the individual prepolymers. Depending on the respective substrate surface, a covalent substrate-adhesive bond can additionally strengthen the adhesion. PUR-based hotmelts naturally have a **high resistance** to moisture, water and many chemicals. EUKALIN offers you a wide range of polyurethane-based (PUR) hotmelts tailored to your needs.

Your Adhesive Partner ______ 23

Coldseals

Synthetic or based on natural latex

Gravure printing

Available for a wide range of film and paper applications

Suitable for food packaging

EUKALIN coldseals – Printing is everything

Coldseals are often used for the production of flexible packaging in the food sector but are also used in a large number of other products. Applied in a printing process or via roller systems and then dried, for example, via high-frequency dryers (HF), a self-adhesive coating is created that only seals to itself by pressure. Seal strengths or special release properties can be specifically adapted and **optimized to your needs** if required.



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Learn more about EUKALIN

Please get in touch with us. We are looking forward to hearing from you.

Your direct way to us +49 (0) 2403 6450 - 0

A phone number for many adhesive solutions and a partnership that lives up to its promises.



Heatseal Dispersions

Suited for your printing process

Environmentally friendly

Free of APEO, NMP and plasticizer

Test for c

Tested and approved for direct contact with food



Low activatio temperature

EUKALIN heatseal dispersions – individual and reliable

The number of water-based adhesives for flexible packaging systems is steadily increasing worldwide. Heatseal dispersions from EUKALIN do **not contain any solvents** or **phthalates**. They offer excellent processing properties and a **maximum of product safety**. EUKALIN heatseal dispersions can be applied by pump in circulation or feed on demand. They can be processed in gravure, flexo or offset printing as well as on laminating machines. The excellent moistening ensures an **optimum print result**, even with the smallest contact points.

EUKALIN heatseal dispersions are characterized by a high solid content. This enables drying temperatures of **less than 60°C** - ideal for shrink sleeve finishing.

Activation temperatures ≥ 75 °C provide reliable adhesion on many plastics, glass, metal and even wood. Furthermore most of our heatseal dispersions are **completely block-free** - even against themselves. Suitable substrates are PP, PET, PS and PVC. Also sealable paper can be produced.

Your Adhesive **Partner**

Water-based Adhesives



Individually adaptable

Suitable for food-related applications

EUKALIN water-based adhesives - our main competence for more than 120 years

The most **environmental-friendly adhesive bonds** can probably be created with our water-based adhesives. The bonding is simply effected by evaporation and absorption of water by the substrate. Neither **solvents** nor **chemical curing agents** nor **toxic plasticizers** such as phthalates are necessary and the processing is **energy-saving** without heating, cooling or suction devices. In addition to the classic dispersion adhesives, types based on **renewable raw materials** such as casein or starch are also available.





Jelly Glues

Ecological and sustainable

Excellent processing properties

High initial ta

√. P

Pleasant odor

Jelly Glues - traditionally good

The production of folders or hardcover books is hard to imagine without jelly glues. Our portfolio also includes jelly glues for the production of rigid boxes such as high-quality jewellery or cutlery packaging. This includes a variety of surfaces as well as the restoring forces of the most diverse materials, so that a **failure-free production** is possible. We can **individually** tailor the color, solid content and open time **to your requirements**.

Your Adhesive Partner — 33



Envelopes

High-performance adhesives available for blank sheet or reel (Web and die cut)

Side and bottom flap adhesives for various requirements

From satin liner to inserting envelopes

Adhesives for all closing flap

Window gum for all window film types

Seal gum based on resin or resin-dextrin blend

Packaging

Softener free or low migration adhesives

Reliable bonding of different materials

High wet tack and fast setting behavior

Clean and precise processing

Perfect machine runn characteristics

Good cleaning properties



Print & Print finishing

Broad product portfolio

Tailored customer solutions

Optimized for difficult

lacksquare

Synthetic and latex-based coldseals

Suitable for film and

paper applications

Flexible packaging

 $\overline{\mathbf{Y}}$

Compatible with release varnish or release films



Compatible with all ink systems

Re-moistenable gumming High yield

Conventible on gravure, flexo, printing and lamination machies

Self-adhensive labels

Environmental-friendly and sustainable

Low odor due to high-quality raw materials

Easy to use and cost efficient

Good aging resistance

Ideal for non-polar or rough surfaces

Variable adhesion and cohesion profiles available tailored to the application

Paper sacks

Recommended use on bottomer and tuber machines

paper to paper bonding

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Paper to PE Film (treated/untreated)

Application by means of digital pasting or analogue systems

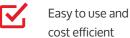
Bonding of dry strippable PE inner bags, without fiber tear



Speacial Adhensives for use in food applications, designed to comply with food regulations



Tapes



Silicone paper free delivery forms

Good aging resistance



Customized formulations

Speacial applications

Developed for your application in cooperation with you



Tested on your materials





Tailored to your application process



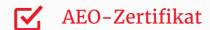
Ideal for non-polar or rough surfaces

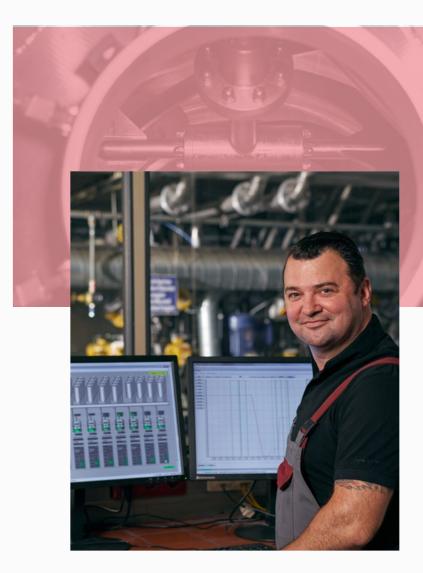
Our Standards - Your Success. **Certified quality**

We ensure the highest standards. We comply with the standards DIN ISO 9001:2015 and 14001:2015, our AEO certificate (customs simplification), the manufacture of our adhesives according to GMP (Good Manufacturing Practice) and the IVK Hygiene Guide ensure that you benefit from consistently high quality.









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Our most important connection is the connection with you.



Jan Schulz-Wachler and Timm KoepchenManaging directors

EUKALIN Spezial-Klebstoff Fabrik GmbH



Ernst-Abbe-Straße 10 D-52249 Eschweiler GERMANY

Telefon: +49 (0) 2403 6450-5115 Telefax: +49 (0) 2403 6450-26

eukalin@eukalin.de

EUKALIN Corporation

739 Roble Road Allentown, PA 18109 USA

Phone: +1 610-266-8910 eukalin@eukalin.com

Our family business stands for quality made in Germany that bonds permanently.



Jan Schulz-Wachler and Timm KoepchenManaging directors

Our experts offer support worldwide.