

excellence
efficiency
quality
responsibility
innovation
proximity

Visit us at
www.morchem.com

MORCHEM
Your Innovation Partner



**Experts in the
production
of lamination
adhesives**

**Always first
in food safety and
consumer care**

**Innovative company
geared towards R&D,
Quality and
Sustainability**

■ Welcome to Morchem.
Since 1985 years innovating and
supplying PU-adhesives for
flexible packaging and other
lamination technologies.

MORCHEM
Your Innovation Partner





For over 60 years we represent specialty experience in PU technologies

At Morchem we are proud to be a family enterprise, with the second generation leading the company.

MORCHEM

In 1955, Helmut Schaeidt was one of the pioneers in Spain in the production of Polyurethanes. The knowledge and experience obtained all over these years in the field of Polyurethanes is the base of foundation of Morchem in 1985. The aim to serve our customers, the speed in decision making and our flexibility are the characteristics which define us best.

■ OUR MISSION, VISION & VALUES

To become a global benchmark in the manufacture of laminating adhesives for highly demanding applications through innovation and service excellence.

Morchem wants to become the best technological partner in our industry by its values:

- *Pursuit of excellence, desire to succeed.*
- *Knowledge development.*
- *Integrity.*
- *Reliability.*
- *Long-term approach.*
- *Commitment.*
- *Passion.*
- *Open to change, flexibility.*

■ OUR COMMITMENT

We aim to satisfy the needs of our customers and maintain close collaboration with suppliers, technological institutes, universities, producers, etc., by presenting ourselves as their technological partner.

For over 30 years, MORCHEM has been creating value. Our commitment is to work with our partners in order to look ahead and not simply solve today's problems. We want to create products and materials for tomorrow.

Our manufacturing expertise makes us a reliable partner. We work with companies to help them make products that differentiate their brands and win customers.

■ ALWAYS IMPROVING

Morchem is able to offer a consistently highest-quality product thanks to our fully automated production processes and SPC system.

We work continually to improve our production processes, focusing our activities on security and safety for our own employees as well as for our customers. Reducing consumption of energy and materials is a very important part of our environmental commitment.

Always first in our Markets offering the best Solutions in Adhesives

Morchem is a Spanish company specialized in the Polyurethane Technology, applied to adhesives and coatings. Located in Barcelona, Morchem researches and develops, produces and supplies polyurethane-based adhesives and coatings, addressed to several markets, such as Flexible Packaging, Textile Lamination, TPUs for Printing Inks, PU-Dispersions and other Technical Applications.



With State of the art facilities and the most advanced control, process and packaging automation, Morchem is a flexible and dynamic company focused to give an optimum service to our costumers. Morchem has experienced a spectacular growth in the exportation of their products at a global level.

- **FLEXIBLE PACKAGING.**
We are flexible to meet your needs.
- **TECHNICAL LAMINATION.**
Photovoltaic, Sailcloth, Electrical laminates.
- **TEXTILE LAMINATION.**
We take care of all your textile lamination requirements.
- **FLAT LAMINATION.**
Wood decorative and functional panels.
- **PU INK BINDERS.**
TPU Binders for printing inks.

Flexible Packaging adhesives, coatings and primers

Food safety is our major priority

Different packaging goods have unique requirements where adhesives can help to provide the best solution in terms of performance and food safety. At Morchem we offer a wide-range of portfolio of adhesive and coating technologies to meet customer needs in the flexible packaging industry for different types of markets: food and beverage, cosmetic, pharmaceutical and industrial.

LAMINATING ADHESIVES

With our skilled technical support and our industry expertise, we can recommend the most suitable solutions from our complete range of laminating adhesive systems. Our polyurethane adhesives are specially formulated to meet the most demanding applications of the market:

- Recommended to withstand retort and ovenable applications.
- Improving productivity through high solids application, low solvent retention, high green tack, excellent wettability and brilliant optical appearance, at high speed machine
- Can be used to contain very aggressive filling goods.
- Compostable **solvent based** adhesive suitable for laminating biodegradable films.
- **Solvent free** aliphatic adhesive that resists high thermal processes and is in full compositional compliance with FDA and EU regulations.
- High speed lamination of high-barrier structures.
- Approved by digital ink manufacturers.

Our product range covers solvent based and solvent free as well as water-borne adhesives.

FUNCTIONAL COATING AND PRIMERS

We produce a variety of coatings, primers and lacquers.

Examples of our range of products include: extrusion primers, adhesion promoters, printing primers and many other applications.

Our functional coatings are used specially for gloss or matt packaging designs applied on paper, aluminum foil or plastic films, improving the visual appearance and protecting surface printed material.



Technical Lamination

Adhesives for technical lamination

PHOTOVOLTAIC

Laminates used as **back-sheet insulation for photovoltaic panels** must withstand extreme conditions for at least 25 years. A laminate for the front-side of such a panel must also resist extreme UV radiation. **Our highly experienced R&D team** has formulated the best solutions to provide our customers with the adhesives that best fulfill their requirements

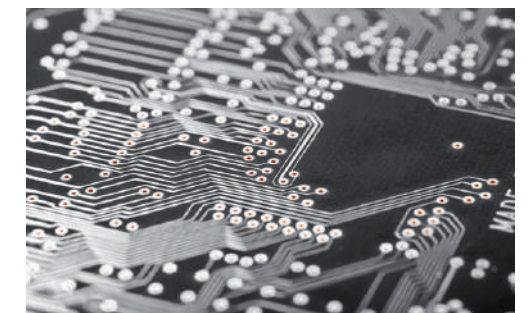
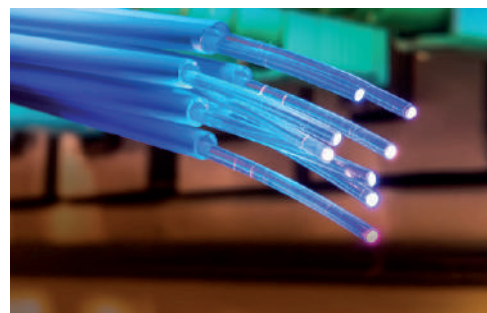
ELECTRICAL

Our portfolio of industrial adhesives can cover a **wide range of laminates used in the electrical insulation industry** for different applications such as special cable wrapping, flat cable and electrostatic shielding, including electrical insulation up to class H+. Our products are also used for the **production of flexible conductive wiring.**

SAILCLOTH

Adhesives used in the sailcloth industry to laminate polyester fabrics and films have **highly demanding requirements.** They should be able to resist exterior weathering from extreme heat to cold temperatures, and prolong its properties over the time.

Morchem adhesives for sailcloth offer optimal bonding properties, high elasticity, excellent UV stability and very good hydrolysis resistance.



Textile Lamination

We take care of all your textile lamination requirements

SKIN CARE

Morchem has developed an **extensive product portfolio of polyurethane adhesives** to cover different lamination applications. A great variety of adhesives to bond all possible substrates, from cotton, polyesters and polyamides fabrics to PVC, PUR or polyester membranes including **high-technology fibers such as fluorocarbon films (Teflon®)**. These adhesives can be applied with conventional application methods such as slot nozzle, roller, screen or spray. Our adhesives are recommended for end uses and applications in areas including the automotive industry, medical textiles, protection and industrial wear, sportswear, upholstery textiles, intimate apparel, fashion textiles, etc.

RHM LAMINATING ADHESIVES

Reactive Hot Melt Adhesives for textile lamination are a unique technology offering a durable and non-reversible bond to withstand the highest thermal and chemical aggressive conditions. Reactive Hot Melt Adhesives also offer the following benefits:

- *Higher-efficiency energy system.*
- *Non-flammable product.*
- *Application on demand.*
- *Irreversible bonding.*

SOLVENT AND WATER BASED ADHESIVES

Our water-borne and solvent based (Newbond) adhesives for textile applications have been **specifically developed for fabric and foam laminations**, as well as diverse nozzle applications. Morchem products have high tack performance and a 'soft to the touch' finish.



Flat Lamination

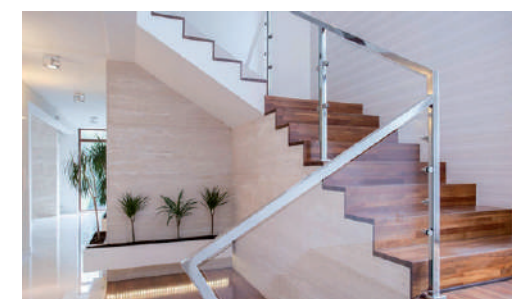
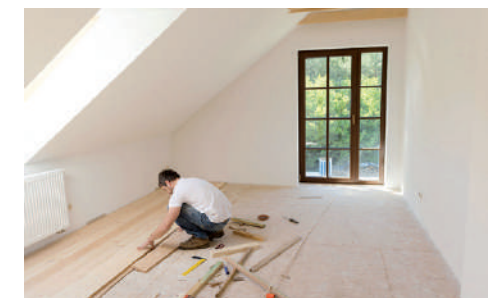
Maximum comfort and guarantee

ADHESIVES FOR FLAT LAMINATION
Wood decorative and functional panels, veneers, CPL and HPL for the furniture and the building industry are assembled using flat lamination and surface bonding technologies.

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Morchem Polyurethane Reactive Hot Melt Adhesives have been specially formulated to meet different requirements depending on the substrates to be bonded.

High adhesion, high creep resistance, excellent roller stability and easy processability are some of the main advantages obtained with flat lamination for building furniture, interior and exterior walls, roofs and floors for buildings, caravan and truck panels offering security, fire protection and insulation.



PU Ink Binders

TPU Binders for printing inks

At Morchem we develop, produce and supply a broad range of modifying, film-forming and plasticizing thermoplastic polyurethanes for flexographic and gravure printing applications. Morchem TPU resins are suitable to be used in surface and laminating printing inks, and are designed to fulfill the highly demanding printing requirements of this sophisticated market.

MODIFIER PU BINDERS

Thermoplastic modifier polyurethane resins are used in combination with NC resins as flexibilizers, plasticizers and adhesion promoters in printing inks to replace phthalates and other restricted substances.

FILM-FORMING PU BINDERS

Elastomeric polyurethane resins are of a high molecular weight and used alone or in combination with small quantities of NC as a base for printing inks.

Our new-generation aliphatic and tin-free elastomeric polyurethanes are successfully used in flexographic and gravure universal laminating ink systems providing specific features such as: direct pigment gridding, excellent adhesion, low odor/solvent retention, no yellowing performance, excellent anti-blocking, heat and water resistance and high solid content.



Morchem is an Innovative Company

We are an innovative company fully geared towards providing our customers with the best products and the most adequate solutions for their applications, which are always in a process of dynamic evolution.

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■ R&D.

We are an innovative company fully geared towards offering our customers the best products and the most adequate solutions for their applications.

■ CONSUMER CARE.

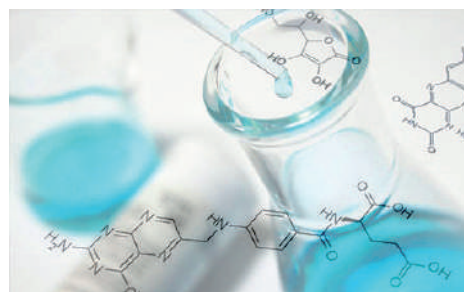
Our priority is to offer a wide range of products and solutions which contribute towards ensuring the best consumer care.

■ PERFORMANCE.

We strive to meet the increasing demand for high-performance structures offering chemical and thermal resistance alike, with the ultimate aim of extending the life of the end product.

■ SUSTAINABILITY.

We are committed to using resources more efficiently to contribute towards enhancing quality of life for current and future generations.



■ R&D.



■ CONSUMER CARE



■ PERFORMANCE



■ SUSTAINABILITY

Technical Service

Our chance still growing

MORCHEM

Morchem is a company fully oriented to the R+D and Technical Support, to give our costumers the best products and the most adequate solutions to their needs, which are always in a dynamic evolution.

In the Application Laboratory, real work conditions can be simulated with a semi-industrial pilot laminator for Flexible Packaging, as well as with a Reactive Hot Melt pilot machine for technical textile lamination.

In the R+D laboratory , products are developed and constantly improved, in order to meet our customer's requirements. Base technologies for our developments are based on solvent free Polyurethanes, solvent based and Polyurethane dispersions (PUDs)

Quality and Process Control laboratories guarantee the supply of our products in the best conditions and always within the specifications agreed upon with our customers.



Please
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Network

MORCHEM
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Plant 2 • Guadalajara (Spain)
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Warehouses
- ▲ Distributors
Warehouses



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