

# Emfi around the world

## Asia

- Hong-Kong
- Tianjin
- Shanghai

## France

- Haguenau
- Niedermodern

## Hungary

- Budapest

## Poland

- Cracow

## Ukraine

- Lviv
- Kiev

## USA

- Chicago

## Slovakia

- Bratislava
- Ziar

## Czech Republic

- Prague
- Zlin



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■ manufacturing sites and sales centres

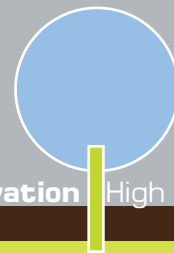
▲ sales centres



[www.emfi.com](http://www.emfi.com)



Emfi<sup>®</sup>,  
when it comes to industry  
and the environment,  
**stick with us!**



Competitivity **Quality** Innovation **Performance** Reliability   **Innovation** High Technology

Structural adhesives  
and sealants

The specialist in **polyurethane** and **hybrids**



# Industrial know how

**50** years  
of innovation



Specialist  
in polyurethane  
and hybrids



In 1957 **Emile Mandler** set up an operation to produce and market adhesives within his company selling materials and products for the shoe industry.

**The Emfi name was registered in 1965.**

**1987/1988:** Emfi took part in the launching of SAPO, the Alsace Polymer Company specialising in the production of polyurethane-based sealants. Emfi also launched a manufacturing site for adhesives in Bordeaux.

**1990:** Emfi took advantage of the opening up of Eastern European markets to set up a new sales agency, Emfi TRADE, in Budapest. In the years that followed, it set up agencies in Prague, Bratislava, Bucharest, Kiev, Moscow, Tianjin (China), Hong Kong and Germany.

**1999:** Opening of a new production facility at Nidermodern (Bas-Rhin, Alsace, France).

**2000:** Opening of the Chicago office, Polymers Advanced Technology (P.A.T.).

**2004:** Emfi refocuses on the production of polymer-based adhesives and sealants (polyurethane and hybrids) intended for the industrial and building sectors.

**2006:** Launch of Emfi Poland.

**2007:** Investment in new production facilities.

Emfi is today a world leader in the production of polyurethane-based adhesives and sealants and operates in over 70 countries through 20 subsidiaries.

Our objective is respect the environment while at the same time using leading edge technology to manufacture high quality, high performance, reliable and flexible products. As a company, we aim to be both competitive and highly responsive.

## Emfi®: quality guarantee

### At the leading edge of technology

Close collaboration between our quality assurance and our research and development teams ensures that our products are of the highest quality, reliable and environmentally friendly.

The Emfi group is a signatory to the French Chemical Industry Union 'engagement de progrès®', the equivalent in France of the international Responsible Care® programme.



### Certification and performance at production sites

The Emfi group has been ISO 9001 certified since 1994 and ISO 14001 certified since 2004. It is committed to a fully integrated QSE management system, embracing the health and safety standards incorporated in OHSAS 18001.

This reflects Emfi's commitment to continuous quality improvement. It also demonstrates that respect for the environment is compatible with the work of the chemical industry.

## Research and development

The Emfi group is committed to the development of innovative products and new solutions for the industrial and construction sectors.

The success of the Emfi group is based on supplying specific products,

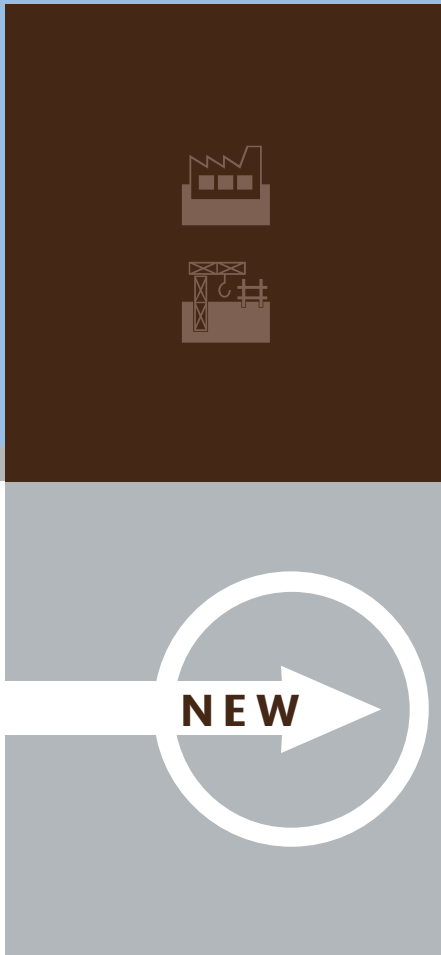
formulated and adapted to meet the needs of each user. It is a world leader in the area of polyurethane-based adhesives and sealants. Our highly qualified researchers and technicians are constantly working

on new formulas and keeping abreast of new trends as they emerge.



# Emfi<sup>®</sup>, 1000

solutions  
for industry and  
construction



What makes us  
different:  
specialisation in PU\*  
and hybrid technology



\*polyurethane  
\*\*volatile organic compounds

The Emfi group invests regularly in high-performance and automated production sites to guarantee that we can meet high levels of demand and, above all, to ensure that what you receive from us is an effective product meeting your needs.

Both the company and its staff take great pride in the quality of production facilities.

## OUR 'PARQUET ADHESIVE' PLANT

- Total recycling of special waste.
- Optimised energy usage.

## OUR EMFIPARQUET RANGE

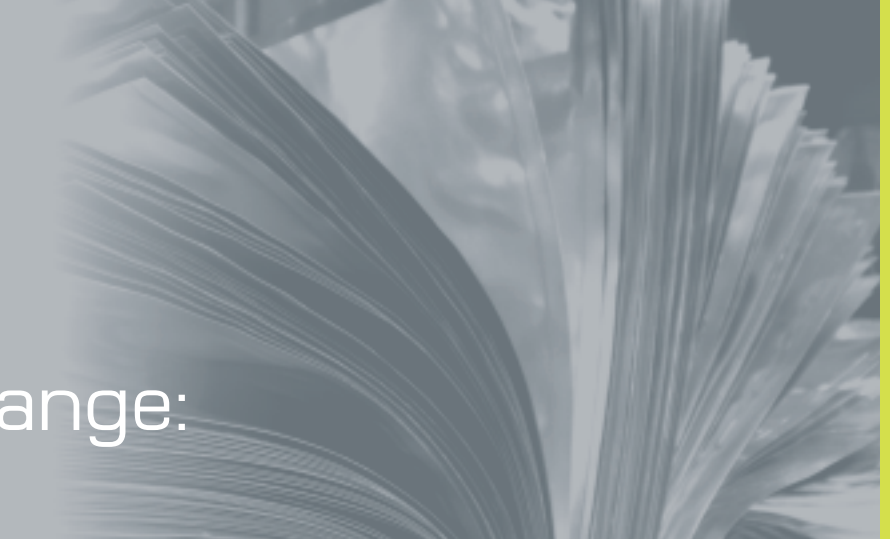
- Friendly to the environment (extremely low VOC\*\* emission rate, EC1 certificate).
- Limited risks to the user.

## OUR PACKAGING

- Facilitates recycling and re-use.
- Reduced levels of waste.



Competitivity **Quality** Innovation **Performance** Reliability **High Technology** C



## The EMFI® range:



### POLYURETHANE SEALANTS

#### Description

Thixotropic single-component products that react with atmospheric humidity to form elastomeric joints. They are applied with guns or specific pumps.

#### Applications

##### Applications in construction

To produce waterproof joints without a primer on common materials (concrete, glass, marble, granite, etc.).

##### Applications in industry

Adhesives (in particular for glass) in the car or shipbuilding industries.

Various waterproof seals for the same sectors. Bonding and waterproofing for modular building panels, bathroom units, etc. Laying of parquet. Semi-structural to structural bonding in industrial bodywork, household appliances, electrical equipment, etc.

#### Principal benefits

Permanent elasticity.

Excellent mechanical properties. Single operation.

#### Certificates

SNJF - MARINE - ISO 11500 - ASTM C920 SNCF - CONTACT WITH DRINKING WATER.

### HYBRIDS

#### Description

Thixotropic products without isocyanate that react with atmospheric humidity to form elastomeric joints. Applied with guns or specific pumps.

#### Applications

##### Applications in construction

To form waterproof joints without a primer on common materials (concrete, glass, marble, granite etc.) meeting SNJF standards.

##### Industrial applications

Bonding and waterproofing of modular building panels or bathroom units.

Semi-structural to structural bonding in industrial bodywork, domestic appliances, electrical equipment, etc.

#### Principal benefits

Permanent elasticity.

High level of mechanical performance.

Bonding without primer across a wide range of circumstances.

Excellent resistance to UV radiation.

Low VOC emission.

#### Certificates

SNJF.

### SILICONE

#### Description

Thixotropic polysiloxane products reacting with atmospheric humidity to produce elastomeric joints. Applied with a gun using cartridges or pouches.

#### Applications

Applications in the building sector for the following purposes:

- forming waterproof joints on common building materials without a primer,
- forming sanitary joints in bathrooms,
- bonding and waterproofing of interior or exterior glass.

#### Principal benefits

Permanent elasticity.

Excellent reaction to bad weather.

Excellent resistance to yellowing.

### PU ADHESIVES SINGLE COMPONENT

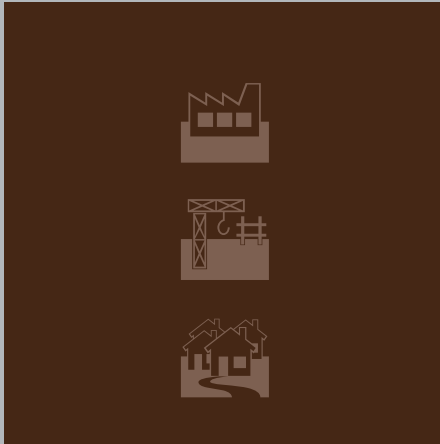
#### Description

Single-component polyurethane-based adhesives. Polymerised when exposed to humidity in the air or in the substrates.

#### Applications

Sandwich panels (caravans, technical flooring, façade panels, cladding panels). Parquet laying. Outdoor woodwork. Shipbuilding.

# A range of products that will meet all your expectations



## Principal benefits

Good bonding properties on numerous materials.  
Good resistance to temperature changes (-40 to +100°C), to bad weather and to chemical products. Broad range of viscosity.

## Certificates

D4 classification (water resistance).  
Euroclass A2 (fire resistance).

## ADHESIVES TWO-COMPONENT PU

### Description

Adhesives based on two-component polyurethane, polymerised by a chemical reaction of component A (polyol) with component B (hardener) after mixing.

### Applications

Sandwich panels (façade panels, cladding panels, truck floors).  
Bonding of partitions. Parquet adhesives.

## Principal benefits

Good bonding properties.  
High mechanical resistance.  
Variable drying rate.  
High resistance to heat and to chemical products.  
Certificates  
Euroclass A2 (reaction to fire).

## SOLVENT ADHESIVES

### Description

They may be based on polychloroprene, SBR, PVC or polyurethane. They come in the form of a liquid, paste or gel.

### Applications

Polychloroprene-based adhesives:  
sandwich panels, shoe and leather goods industries, furniture, etc.

SBR-based adhesives:  
bonding of foam to itself or to materials such as wood.

Polyurethane-based adhesives:



# Specialist in PU and Hybrids



## CYANOACRYLATE/ANAEROBIC ADHESIVES

### Description

Anaerobic products are single-component resins which polymerise in the absence of oxygen and through contact with metals.

They are 100 % gap-filling, forming a single bonded unit that absorbs vibration and impact.

### Applications

Maintenance of industrial equipment (car industry, etc.).

Production lines.

Metallic bonds and links.

Screws and bolts.

Bearings.

Cylinder assembly.

Engine gaskets.

### Principal benefits

Excess remains fluid and can be cleaned. Heat resistance over the range -50°C to +150°C.

Avoids oxidation.

Does not block filters.

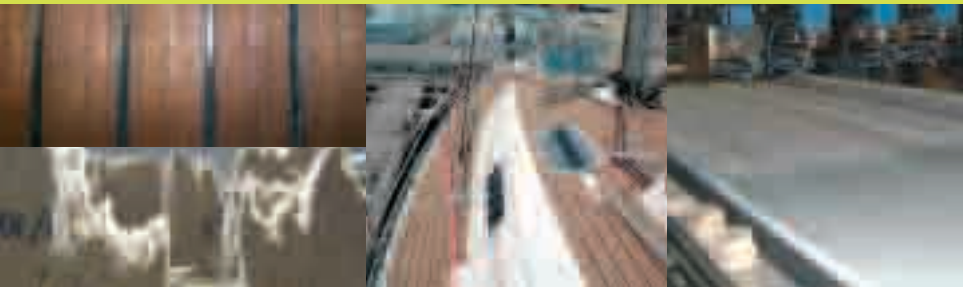
Different values of resistance to shearing and to pressure make it possible to satisfy all requirements in bonding and waterproofing mechanical components.

Multiple cost-effective application methods.

Application to just one substrate.

Easy to calculate amounts.

24 month lifetime.



bonding of leather, flexible PVC or certain types of rubber to each other or to themselves.

### Principal benefits

Polychloroprene-based adhesives: able to bond a wide range of materials. Bonded units can be handled immediately.

SBR-based adhesives:

do not attack expanded polystyrene. inexpensive.

Polyurethane-based adhesives:

used with a hardening agent, they have good resistance to water and heat.

## WATER-BASED ADHESIVES

### Description

Various types: vinyl, acrylic, latex.

They cure as the water evaporates.

This is why at least one of the materials being bonded needs to be porous

### Applications

Vinyl adhesives used for bonding of wood. Acrylic sealants for joints.

Bonding of insulating materials onto porous substrates, bonding of decorative elements for acrylic structure adhesives.

Latex adhesives for bonding of leatherware, cloth or felt.

### Principal benefits

No VOCs\*. Tools can be cleaned in water. Less demanding than a polyurethane adhesive when it comes to application equipment: no risk of reaction with atmospheric humidity.

## HOTMELT POLYURETHANES

### Description

Hotmelt polyurethane-based adhesives cross link with humidity in the air or the materials. They are solid at room temperature and are applied at temperatures above 100°C.

### Applications

Sandwich panels for caravans, technical flooring, façade panels, cladding panels, furniture.

### Principal benefits

No VOC emission, 100% dry extract. Good initial grab: panels are usable quickly.

Good heat resistance.

\* volatile organic compounds

It is our teams that have given us fifty years of success in providing you with quality products.

Our track record is that of an innovative family-owned company.

