

# Assembly Bonding

with High Performance Adhesives from KLEIBERIT



- Very fast adhesion
- Easy handling

- Highest stability and strength
- Solution-focused service

# Assembly Bonding – with High Performance Adhesives

## KLEIBERIT Reactive PUR Hotmelt Adhesives

These hotmelt adhesive systems react with the moisture in the materials to be bonded or in the surrounding environment, e.g. in the air. Therefore there is not only a physical effect due to the liquid adhesive hardening, but also an additional chemical reaction which positively impacts the characteristics of the bond. PUR hotmelts can hardly be surpassed in terms of adhesion properties or water and temperature resistance. Due to the short to medium open time, application should take place under defined conditions.

### Advantages:

- Low processing temperature
  - High initial strength
  - Excellent final strength of the glue line
  - High temperature resistance from -40 °C to more than 120 °C
- PUR hotmelt adhesives are used in a variety of applications in the automotive, electronic and textile industries.



## KLEIBERIT Hotmelt Adhesives (EVA/PSA/PO)

Hotmelt adhesive systems are typically used in the wood, plastic and filter industries. Their properties are adjusted depending on the respective requirements, e.g. heat resistance, bond strength or line speed of the existing machines and lines. Manual application is also possible.

### Advantages:

- Standard processing temperatures
- High initial tack
- Good price-performance ratio

The applications are diverse. Excellent suitability for bonding in furniture production, filter production, paper processing and for assembly bonding.

## KLEIBERIT 1C/2C PUR Adhesives

One component systems cure by cross-linking with the moisture from the air and the substrate. Two component systems enable guaranteed production timeframes through the targeted addition of a catalyst.

Two component systems are not dependent on moisture. The bonds are especially characterized by their high strength and resistance to temperature and water.

The application of two component systems takes place with an automatic mixing and dosing unit.

### Advantages:

- Liquid adhesive system
- High strength bond
- 2C systems:
  - Open time can be precisely adjusted
  - Not dependent on moisture
  - Heat activation possible

Fields of application: Also for especially hard to bond material such as sandwich panels and lightweight panels. Can also be used as a moulding compound, sealing foam, etc.



## KLEIBERIT STP Adhesives (1C/2C)

One component systems cure by cross-linking with moisture from the air and the substrate. Two components systems enable guaranteed production timeframes through the targeted addition of a catalyst. Two component STP systems are not dependent on moisture. Manual application is also possible.

### Advantages:

- Very good adhesion properties, also without primer
- Easy processing
- Non-foaming
- Can be painted over
- Good UV and weather resistance
- Free from isocyanates

Suitable for elastic fixing, bonding and assembly of different materials.

# Adhesives from KLEIBERIT

## Assembly Bonding – with High Performance Adhesives from KLEIBERIT

Typical Products	Adhesive System	Materials								Properties	Application Temperature	Field of Application
		Glass	Wood	Fiber composites	ABS	Plastic materials (e.g. PBT, PC, PA, PP*)	Al	Stainless steel	Colour plate			
KLEIBERIT 728.6	Hotmelt Adhesive (PSA)			■		■	■			- Permanently tacky - Good adhesion to PE-foils	approx. 160 °C	Household Appliances
KLEIBERIT 728.4	Hotmelt Adhesive (PSA)		■	■		■				- Permanently tacky - No cold flow at room temperature	180 - 200 °C	Electronics
KLEIBERIT 727.3	Hotmelt Adhesive (PO)		■	■	■	■				- High initial strength - High tackiness	160 - 180 °C	Automotive
KLEIBERIT 713.2	Reactive PUR Hotmelt Adhesive		■		■	■				- Fast handling strength	120 - 130 °C	Household Appliances
KLEIBERIT 709.6	Reactive PUR Hotmelt Adhesive	■	■	■		■	■		■	- Long open time compared with other PUR HM - Excellent resistance to heat, more than 140 °C	110 - 130 °C	Electronics
KLEIBERIT 709.2.08	Reactive PUR Hotmelt Adhesive	■	■							- Tough elastic glue line - No water penetration	120 - 130 °C	Assembly
KLEIBERIT 703.8	Reactive PUR Hotmelt Adhesive		■	■	■	■	■			- Fast handling strength - Especially good adhesion to plastic materials - No fogging	120 - 140 °C	Automotive
KLEIBERIT 703.5	Reactive PUR Hotmelt Adhesive		■	■	■	■	■		■	- Fast handling strength - Especially good adhesion to metals	120 - 130 °C	Automotive, Assembly
KLEIBERIT 703.3	Reactive PUR Hotmelt Adhesive		■	■	■	■	■			- Fast handling strength - No stringing	120 - 130 °C	Household Appliances
KLEIBERIT 703.1	Reactive PUR Hotmelt Adhesive	■			■	■	■			- Good adhesion to glass - Long open time compared with other PUR HM	110 - 130 °C	Household Appliances
KLEIBERIT 700.7	Reactive PUR Hotmelt Adhesive		■			■	■			- Long open time compared with other PUR HM	110 - 130 °C	Electronics
KLEIBERIT 602.1	2C STP	■	■		■	■	■			- Excellent adhesion properties - Faster strength build-up than 1C STP-Systems - Suitable for non-permeable materials - Also available as 2C cartridges - Colour: white	5 - 30 °C	Assembly
KLEIBERIT 602.0	2C STP	■	■		■	■	■			- Excellent adhesion properties - Faster strength build-up than 1C STP-Systems - Suitable for non-permeable materials - Also available as 2C cartridges - Colour: transparent	5 - 30 °C	Assembly
KLEIBERIT 600.0	1C STP	■	■		■	■	■			- Permanently elastic - UV and weather resistant - Can be painted over - Colour: transparent	5 - 30 °C	Assembly
KLEIBERIT 584.0	1C STP	■	■		■	■	■	■		- Permanently elastic - UV and weather resistant - Can be painted over - Colour: white	5 - 30 °C	Assembly
KLEIBERIT 574.0 + KLEIBERIT 577.0	2C PUR Adhesive		■		■					- Fast handling strength - High final strength quickly achieved	Room temperature	Household Appliances
KLEIBERIT 543.8 + KLEIBERIT 543.9	2C PUR Adhesive						■			- Tough hard glue line - Long open time - Heat activated curing	Processing at room temperature, curing at > 65 °C	Assembly

\* ensure suitable pre-treatment

Please refer to the Technical Data Sheets of our products. The systems mentioned are recommendations. As we do not have any influence on the variety of materials or their processing, no obligations result from the information in this document or from our free technical support. We always recommend conducting your own trials.

# KLEIBERIT ADHESIVES - THE SPECIALIST AMONGST ADHESIVE MANUFACTURERS

725 EMPLOYEES  
60.000 T ADHESIVE PER YEAR

DIN ISO 14001  
DIN ISO 9001  
DIN ISO 50001



KLEIBERIT adhesives are an now integral part of the world we live in. Today KLEIBERIT SE & Co. KG is based in Weingarten Baden (Southern Germany) and also has one of the most modern and innovative research and production centres worldwide. Innovative adhesive systems for a wide field of applications are being developed in cooperation with, and produced for international customers. The product range is designed specifically for customer requirements and worldwide availability is ensured with an intelligent logistics concept.

## INNOVATIONS - NEW IDEAS DEVELOP TOGETHER WITH CUSTOMERS.

Adhesive bonding is the bonding technology of the future. KLEIBERIT'S strategy is to continue to provide new innovations for a wide field of applications. One investment for the future is the shown by the opening of the TECHNICAL CENTER in 2009. Customer can regularly be found here working closely with KLEIBERIT engineers and technical personnel to develop specific product solutions.

## COMPETENCE PUR - RESEARCH AND DEVELOPMENT SECURE THE FUTURE.

The KLEIBERIT trademark stands for innovative research and development, the most modern production, highest product quality as well as service oriented, customer focused and competent consultation. And this for 75 years.

In the last 25 years, KLEIBERIT has become a global trendsetter for PUR adhesive systems and has significantly influenced the market with its innovative product ideas.

## CUSTOMER SATISFACTION - EVERY CUSTOMER IS NUMBER ONE WITH US.

On the road in many markets and all regions of the world, we speak almost every national language and are directly on site via a comprehensive service and consulting network. By working closely with machine and material manufacturers, we offer practical and innovative adhesive systems which meet a wide variety of international standards and norms.

## SOCIAL RESPONSIBILITY - WE LIVE THE PRINCIPLE OF SUSTAINABILITY IN PROCESSES AND PROCEDURES ACCORDING TO CERTIFIED QUALITY AND ENVIRONMENTAL MANAGEMENT.

Responsibility towards the environment and the people in research, development, production and logistics is one of the main goals at KLEIBERIT. Our demand to combine high product quality with environmental and health and safety of the workforce accompanies our innovation process from the beginning. We also want to further develop this global responsibility in the future with sustainable processes and goals.

### KLEIBERIT® ADHESIVES WORLDWIDE:

KLEIBERIT Chimie S.a.r.l.  
Reichstett, France

KLEIBERIT Adhesives UK  
Coalville, Leicestershire, England

KLEIBERIT Adhesives USA Inc.  
Waxhaw, North Carolina, USA

KLEIBERIT Adhesives of Canada Inc.  
Toronto, Ontario, Canada

KLEIBERIT Adhesives Asia Pte. Ltd.  
Singapore, Singapore

KLEIBERIT Adhesives Australia  
Sydney, Australia

KLEIBERIT Adhesives Japan  
Osaka, Japan

KLEIBERIT Adhesives Beijing Co., Ltd.  
Beijing, China

KLEIBERIT Russia  
Moscow, Russia

KLEIBERIT Adhesives India Private Ltd.  
Bangalore, India

KLEIBERIT-UKRAINE LLC.  
Kiev, Ukraine

KLEIBERIT Kimya San. ve Tic. A.Ş.  
Istanbul, Türkiye

KLEIBERIT do Brasil Comércio de Adesivos e Vernizes Ltda.  
Curitiba, Brasil

KLEIBERIT Bel  
Minsk, Belarus

KLEIBERIT Adhesives México S.A. de C.V.  
Mexico City, Mexico