

SeaCraft

KLEIBERIT Adhesive Systems for
Ship and Boat Building





KLEIBERIT has been developing and producing high quality adhesive systems for a wide range of applications and industries for almost 70 years.

With the SeaCraft product line, KLEIBERIT offers its customers a wide range of adhesives and sealants for a variety of applications in shipbuilding. KLEIBERIT Adhesives for production of aluminum lightweight panels and million fold proven adhesives such as KLEIBERIT PUR Adhesive 501.0 for highly resistant wood bonding round out the comprehensive portfolio. SeaCraft stands for KLEIBERIT's innovation and commitment to partners and for the reliability and durability of the end product.

The SeaCraft product line includes the following adhesive groups:

- 1C PUR Adhesives and Sealants
- PVAC and EVA Dispersion Adhesives
- PUR Hotmelt Adhesives
- 2C PUR Adhesives



Environmental Management
ISO 14001
Quality Management
ISO 9001
Energy Management
ISO 50001

Contents

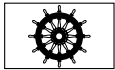
Application	Product	Page
Aluminum honeycomb panels	543.8	10
Elastic adhesive sealing	566	4
Flat lamination	332.0 347.0 700.5, 702.5 706.0, 706.1, 711.3	7 8 9 10
Insulating foam bonding	509.6	6
Laminated wood bonding	303.0, 332.0 347.0, 404.6	7 8
Lightweight panel production	503.9 506.6 706.0, 706.1 543.8, 596.6	5 6 10 11
Postforming	347.0	7
Sealing interior	566	4
Veneer lamination	332.0	7
Wood and wood based materials lamination	332.0 347.0, 404.6 700.5, 702.5 706.0, 706.1, 711.3	7 8 9 10
Wood bonding	501.0 506.6 303.0, 332.0 347.0, 404.6	5 6 7 8

For additional applications, please see the specific product data sheet

One Component PUR Adhesive and Sealant Compounds

The products in the SeaCraft line offer ideally matched solutions for the various areas in marine industry applications. Availability in 600 ml sausages ensures easy, on-site processing.

KLEIBERIT 566 Supracraft



Sealant

Properties:

- Universal sealant for wide application field
- Available in black, white and grey

Processing:

- Easy application with standard application pistols

Fields of application:

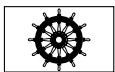
- Sealing in weatherproof areas



1C PUR Adhesives

KLEIBERIT 1C PUR adhesives feature very good adhesion, and excellent strength with simple, user friendly handling. The processing properties optimally match the specific field of application. Due to their slightly foaming character, these products are also suitable for bonding porous materials such as wood, fiber or insulating panels.

KLEIBERIT 501.0



Properties:

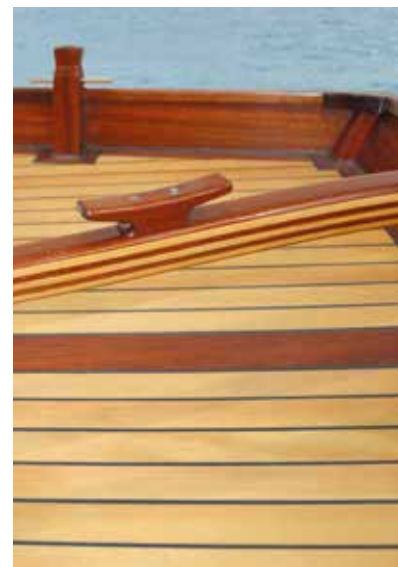
- Tested according to DIN EN 14257 (WATT 91) and DIN EN 204 (D4)
- Very good water and moisture resistance
- High heat resistance
- Wide bonding range

Processing:

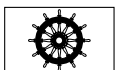
- Easy dosing from plastic bottles with patented lid
- Easy adhesive distribution, even on large surfaces

Fields of application:

- Window and door bonding, staircase construction and laminate bonding
- For interior and exterior areas (exterior with surface protection).
- Bonding of mineral material and hard foams



KLEIBERIT 503.9



Properties:

- Elastic glue joint
- Light glue joint after curing
- Wide bonding range

Processing:

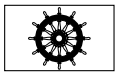
- Short press times
- Suitable for manual and automatic application

Fields of application:

- Production of sandwich elements with PUR or polystyrene cores
- Surface lamination with short cycle times



KLEIBERIT 506.6



Properties:

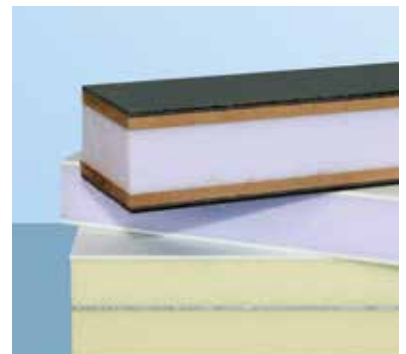
- Wide bonding range
- Medium hard adhesive joint

Processing:

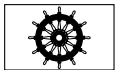
- Long open time
- Low viscosity
- Excellent processing in manual processes

Fields of application:

- Production of sandwich elements with cores made from standard hard foams and various top layers.
- Large area bonding with manual production processes



KLEIBERIT 509.6



Properties:

- Elastic joint at temperatures from -25 °C to 50 °C
- Wide bonding range

Processing:

- High foaming for porous substrates
- Low viscosity
- Easy processing

Fields of application:

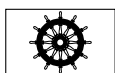
- Bonding of insulation material, insulating panels, etc.



PVAC and EVA Dispersion Adhesives

KLEIBERIT offers numerous PVAC and EVA dispersions for gluing wood and wood based material, and for the production of raised access flooring. Select products are particularly suited for use in shipbuilding and offer our customers IMO certified solutions.

KLEIBERIT 303.0



Properties:

- Tested according to DIN EN 204 (D3)
- High quality universal glue

Processing:

- Easy application with all standard application processes
- Suitable for high frequency bonding

Fields of application:

- Window and door bonding
- Bonding of partitions and parts
- Stair construction
- Bonding of laminates
- Bonding of tenon and finger joints
- Bonding of hard and exotic timber
- High frequency bonding



KLEIBERIT 332.0



Properties:

- Tested according to DIN EN 204 (D2)

Processing:

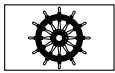
- Long open time
- Very good application properties

Fields of application:

- Veneer lamination of wood and wood based materials
- Flat lamination of HPL and CPL



KLEIBERIT 347.0



Properties:

- Tested according to DIN EN 204 (D2)

Processing:

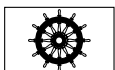
- Optimized for postforming
- Suitable for roller and spray application
- Fast setting properties

Fields of application:

- Continuous and cycle process postforming
- Flat lamination of veneers, HPL and CPL
- Bonding of laminates in short cycle presses
- Assembly bonding and joint bonding



KLEIBERIT 404.6



Properties:

- Electrical resistance $<10^6 \Omega$

Processing:

- Suitable for roller application

Fields of application:

- Conductive dispersion for the production of raised access floors
- Bonding of carpeting, vinyl made from soft PVC, linoleum

PUR Hotmelt Adhesives

Polyurethane based hotmelt adhesives combine two important advantages of traditional adhesive groups: the bond has high strength through the fast cooling of the adhesive during the assembly process so further fixing or pressing is generally not required. Afterwards cross linking takes place with moisture from the substrates or the ambient air which gives PUR hotmelts their high temperature and moisture resistance.

KLEIBERIT 700.5

**Properties:**

- Excellent durability
- Very good properties under changing climate conditions
- Very good adhesion on plastic surfaces

Processing:

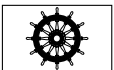
- Application with spray, roller or slot nozzle
- Distinctive tackiness
- Good wetting of difficult substrates
- Low processing temperature
- Long open time

Fields of application:

- Assembly bonding
- Large area lamination of plastic foils
- 2 layer parquet production



KLEIBERIT 702.5

**Properties:**

- Good adhesion to pre-treated aluminum

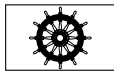
Processing:

- Roller or slot nozzle application
- High green strength with pronounced tackiness

Fields of application:

- Bonding PVC, wood based, and pre-treated aluminum profiles with CPL, PVC films, and veneers, for interior use.
- General edge banding of furniture

KLEIBERIT 706.0



Properties:

- Highly durable bonds
- Wide range of bonding

Processing:

- Optimized for flat lamination lines
- High green strength
- Application with roller and slot nozzle
- Very high service life in roller application

Fields of application:

- Flat lamination of various materials



KLEIBERIT 706.1



Properties:

- Highly durable bonds
- Wide range of bonding

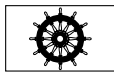
Processing:

- Optimized for flat lamination lines
- High green strength
- Application with roller and slot nozzle
- Very high service life in roller application

Fields of application:

- Flat lamination of various materials

KLEIBERIT 711.3



Properties:

- Highly durable bonds
- Wide range of bonding
- Low monomeric MDI content < 1%

Processing:

- Optimized for flat lamination lines
- High green strength
- Application with roller coater
- Long open time

Fields of application:

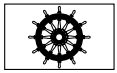
- Flat lamination of various materials
- Excellent for bonding impermeable substrates together



2C PUR Adhesives

In the field of 2 component PUR systems, KLEIBERIT can refer to many years of development experience together with several industrial partners. Innovative highlights from the 2C PUR adhesive field were specifically developed further for the production of lightweight and insulating panels in the marine segment.

KLEIBERIT 543.8



Properties:

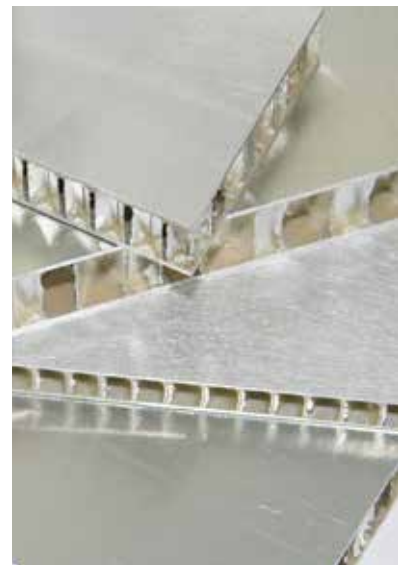
- Durable bonding
- High moisture resistance

Processing:

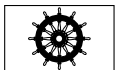
- Heat activated and highly hydrophobic
- Ideal for tropical and subtropical regions
- No foaming at high humidity
- Open time of 30 min. at 35°C / 90% RH (!)
- Short press time (5 min. at 75°C)
- Increased process reliability

Fields of application:

- Panels with honeycomb cores
- Sandwich panel production in discontinuous processes



KLEIBERIT 596.6



Properties:

- Good adhesion performance
- High strength with thin adhesive coat

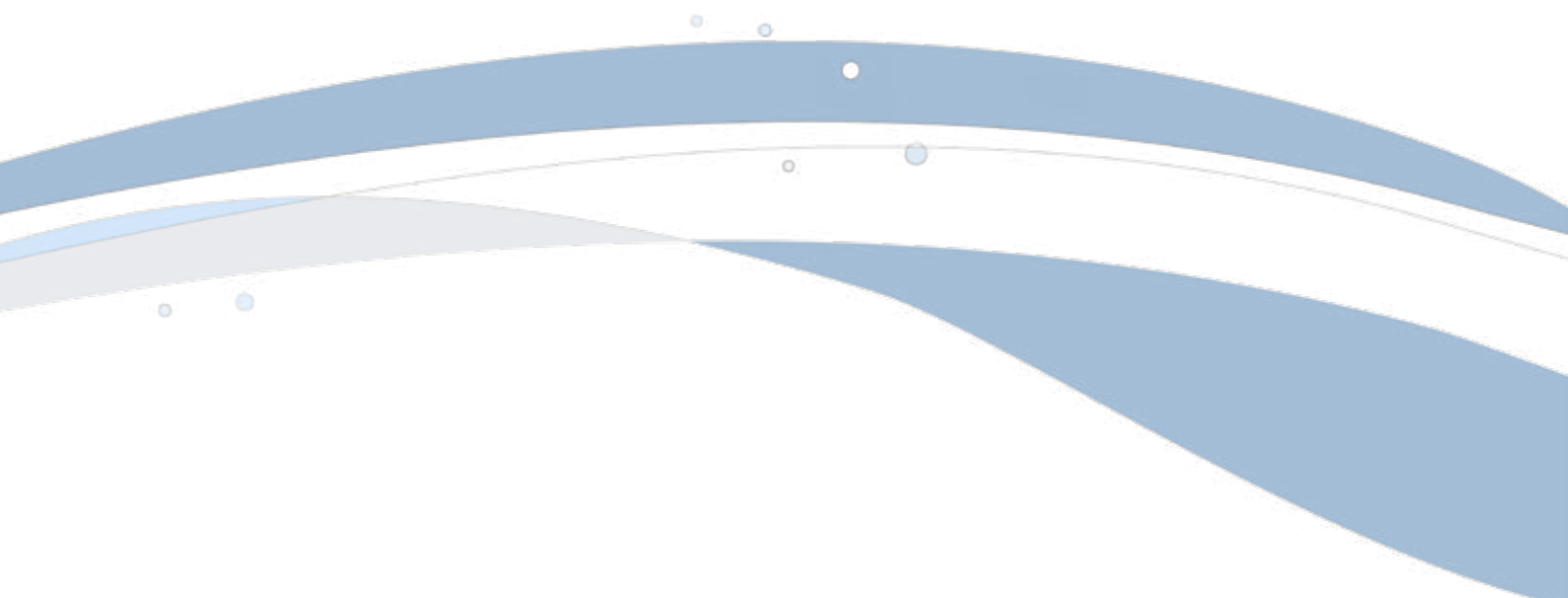
Processing:

- Long open time
- Suitable for manual and automatic application with spray or roller application

Fields of application:

- Bonding of non or slightly porous materials e.g. XPS, wood, metals
- Sandwich panel production with various lot sizes





KLEBCHEMIE

M. G. Becker GmbH & Co. KG
Max-Becker-Str. 4
76356 WEINGARTEN
GERMANY
Phone: +49 7244 62-0
Fax: +49 7244 700-0
Email: info@kleiberit.com
www.kleiberit.com