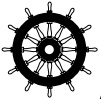




# KLEIBERIT 501

One component, polyurethane adhesive for very strong, gap-filling bonds with high temperature resistance and water resistance according to DIN/EN 204 stress group D4.

0736



KLEIBERIT  
PUR-Leim 501.0

## Bonding in Shipbuilding

(according to IMO FTPC Part 5 & Part 2/  
Approval per SeeBG test certificate for international use according to Module B). Certified application quantity: 150 g/m<sup>2</sup>

Adhesive for water  
resistant bonding  
according to  
**DIN/EN 204**

**D4**



**The handy bottle with the patented dispensing lid.**

- self cleaning
- easy to dispense
- precise adhesive application



**KLEIBERIT 501** is a single component PUR adhesive for strong, gap-filling bonds with high temperature resistance according to DIN/EN 14257 (WATT 91) and water resistance according to DIN/EN 204 stress group D4.

#### FIELDS OF APPLICATION

Bonding windows and doors, stairs, plywood to be used inside or outside (outside use with surface protection). Bonding mineral building boards, ceramic materials, concrete materials and hard foams.



Please see warnings on the bottle before using!

#### PREPARATION

The surfaces to be bonded must be climatised, clean, dry and free from dust and grease. Release agents must be completely removed.

#### APPLICATION

- Single-sided application using a spatula or hand roller to the surface which is least porous
- Assemble the two pieces to be bonded
- The product cures to a water-resistant, solvent-resistant and semi-rigid adhesive film when subjected to the influence of humidity (air, material). The cross-linking process can be accelerated by means of a targeted moisture supply (fine water spray, approximately 20 g/m<sup>2</sup>), or by higher temperatures (40°C up to max. 60°C).
- The cross-linking process should take place with a pressure that guarantees sufficient contact of the glued surfaces. In order to protect exposed surfaces from being contaminated with glue, apply e.g. a silicone paper to this area.
- The necessary pressure is dependent upon the type and size of materials. A good closed joint should be achieved. Minimum pressure for bonding laminated wood: **0.6 N/mm<sup>2</sup>**. The more intensive the cross linking of the adhesive under pressure, the higher the subsequent load ability.

#### PROPERTIES OF THE ADHESIVE

- **Base:** polyurethane
- **Specific gravity (20 °C):** approx. 1.13 g/cm<sup>3</sup>
- **Consistency:** see table
- **Temperature:** +20 °C ideal, not below +5 °C
- **Wood moisture:** ideal for interior between 8-10% for exterior between 10-14%
- **Coat weight:** 100-200 g/m<sup>2</sup>  
Depending on the condition of the material
- **Open time:** see table
- **Press time:** see table
- **Curing time:** see table
- **Final strength:** after approx. 24 hours with sufficient moisture
- **Colour:** yellowish-brown

#### CLEANING

- Immediately clean spilled glue with a towel and **KLEIBERIT 820.0 Cleaner toluene-free**.
- Clean application tools with **KLEIBERIT 820.0 Cleaner toluene-free** immediately after use.

Cured adhesive can only be removed mechanically.

#### ADHESIVE AND PACKAGING DISPOSAL

Disposal code 080501

#### PACKAGING

cartons containing 12 plastic bottles, 0.5 kg each  
 metal canister 6,0 kg net  
 metal can 32,0 kg net  
 metal drum 220,0 kg net

#### STORAGE

**KLEIBERIT 501** can be stored in original factory sealed containers at 20 °C for approx. 9 months. Keep in cool and dry place and protect from humidity. Opened containers should be used as soon as possible. Product is not frost sensitive.

EX 0816; replaces previous versions

#### IDENTIFICATION

identification required according to EU regulations, contains diphenylmethane-diisocyanate, isomers and homologous. **See our safety data sheet 501.0, 501.6, 501.8. For professional use only.**

#### TECHNICAL DATA

### KLEIBERIT 501 1C PUR Adhesive



#### SERVICE

Our application department may be consulted at any time without obligation. The statements herein are based on our experience gained to date. They are to be considered as information without obligation. Please test and establish for yourself the suitability of our products for your particular purposes. No liability exceeding the value of our product can be derived from the foregoing statements. This also applies to the technical consultancy service, which is rendered free of charge and without obligation.

#### Product Overview KLEIBERIT 501

KLEIBERIT Products	D4	Watt 91	Viscosity at 20 °C (mPa·s)	Open time (20 °C)	Minimum press time			Curing time
					(20 °C)	(40 °C)	(60 °C)	
<b>KLEIBERIT 501.0</b>	x	x	8000	approx. 25 min	60 min	30 min	10 min	2-3 hours
<b>KLEIBERIT 501.6</b>	x	x	7000	approx. 70 min	6-7 hours	2-3 hours	1-2 hours	1 day
<b>KLEIBERIT 501.8</b>	x	x	8000	approx. 10 min	30 min	15 min	7 min	1 hour