



KLEIBERIT 510.0

PUR adhesive for load bearing wood construction
certified in accordance to DIN 1052

tested by
MPA Stuttgart
– Germany –



Standardisation

Load bearing wooden building elements, in accordance to DIN EN 1052, must be produced with suitable adhesives (tested and approved in accordance to DIN 68 141). This norm incorporates the in Europe accepted Euro norms EN 301 and EN 302.1-4.

The standardisation and classification however only refers to the traditionally used poly condensation resins. Therefore, DIBt has a special test series just for 1C PUR adhesives.

Adhesives which pass these tests receive an individual approval certifying their suitability for use in load bearing building elements in accordance to DIN EN 1052.

Wooden building elements in accordance to DIN 1052

Typical construction wooden building elements are:

- Laminated constructional timber
- Duolam and Trilam
- Standardised laminated beams
- Bonded wall and ceiling boards for timber frame houses
- Cross baulk / log cabin boards

KLEIBERIT 510.0

- Very high bond strength due to special reinforced fibre
- Very light glue line
- Excellent application properties
- Suitable for high speeds
- Comfortable applications window with an open time of 60 min
- Press time:
for non-load bearing applications: from 3 h
for load bearing applications: at least 4.5 h

ADHESIVES

Engineered wooden building materials are increasingly replacing solid timber as well as other building products materials. Bonding of load bearing building components requires the use of approved and high quality adhesives. For the production of innovative products, the light coloured glue joint of KLEIBERIT 1C PUR adhesives provides many convincing advantages in addition to clean processing.

Companies wishing to produce bonded load bearing wooden building elements in accordance to DIN EN 1052-1 require proof of suitability. The required test is conducted by Deutschen Institut für Bautechnik (DIBt) in Berlin.

- **Load bearing**
- **Fibre reinforced**
- **Water resistant**
- **Long term stability**
- **Light glue line**

KLEBCHEMIE

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



Additional 1C PUR Adhesives for Solid Wood Processing

KLEIBERIT Product	Viscosity	Open Time [20 °C]	D4 in accordance to DIN EN 204	Application	Approval for load bearing wood construction
510.0	7,000 mPas	60 min	yes	Load bearing wood construction	yes
501.0	7,500 mPas	20-25 min	yes	Solid wood windows/doors	no
502.8	6,000 mPas	6-8 min	no	Solid wood short press times	no
506.0	1,600 mPas	20-30 min	yes	Wood windows / doors sandwich elements	no

Please see our technical data sheets.

KLEIBERIT Materials

KLEIBERIT Product	Application
885.0 885.7	Release agent for threads, applicator head, slip surface, etc.
822.2	PUR-cleaner for finger jointing comb
820.0	Cleaner for fresh PUR



National Technical Approvals
Approval No. Z-9.1-668



Competence PUR – Highest quality standards, decades of experience and innovative solutions

Intensive research, competent development and customer oriented application technology are the foundation for the enormous international success of KLEIBERIT adhesive systems in a variety of applications. Customers worldwide rely on the know-how resulting from decades of experience in the area of PUR adhesives and their applications.



Application

Surface bonding

KLEIBERIT 510.0 is applied one sided with appropriate sealed application equipment. This adhesive is easy to pump which allows for high speeds. Bead application is the most commonly used application technique. In addition to this rotation and roller application equipment are also available on the market.

Finger jointing

Finger joints are produced in finger joint machines, which have the necessary comb systems.

KLEIBERIT 510.0 is applied direct from its packaging in a sealed system. The adhesive is applied on both sides in accordance to DIN 1052.