

# Competence in glued timber construction

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BASF and Türmerleim have been working in close partnership for more than 75 years. By joining forces, the two companies have been able to successfully establish numerous innovations. With the expansion of the portfolio to include a line of polyurethane adhesives from BASF, Türmerleim has become a full-service provider in the glued timber construction sector and is fully committed to building sustainably in wood.

Architects and builders are becoming increasingly aware of the importance of the carbon footprint of buildings and of the advantages of building in wood. Compared to concrete and other fossil building materials, wood has a significantly lower impact on the climate. Not least for this reason, demand for the sustainable building material is growing steadily.

## PU adhesive systems for load-bearing timber structures

As a specialist in high-performance adhesives, Türmerleim works closely with the wood processing industry. "In order to be able to supply the right products for the trend towards sustainable building in wood, we needed another component in our product portfolio: a polyurethane adhesive for load-bearing glued timber constructions," Tanguy Trippner, sales manager for the wood adhesives division at Türmerleim, says.

BASF developed the perfect solution: a line of adhesives based on moisture-curing, one-component polyurethanes with different processing times, which are approved for the gluing of load-bearing timber construction elements and thus meet the requirements defined in the norm DIN EN 15425.

## Field-tested right from the beginning

The result is convincing. The Elastan TLP adhesive line, which has been tested according to the norm DIN EN 15425:2017, is free of solvents, fibers and abrasive fillers. The adhesive is offered with different

reaction speeds in order to meet requirements for a wide range of processing times and construction element sizes. At a wood moisture content of 12% and a temperature of 20°C, the ratio of waiting time to pressing time is up to 1:1.5. Customers who opt for this adhesive line thus benefit from high flexibility in processing.

## Many applications: From CLT and glulam to solid structural timber

Elastan TLP is particularly suitable for the production of load-bearing glued timber construction elements, allowing BASF Polyurethanes to expand its presence in a new market. "Bonding technology has become a decisive forward-looking technology for many industrial applications and contributes to a sustainable way of building thanks to the use of load-bearing glued timber structures," Dr. Martin Linnenbrink, Head of the adhesive development department at BASF Polyurethanes, emphasizes. Türmerleim is actively serving the market by using its dense network in the industry to offer service packages for everything relating to the application of the adhesive. In addition to sales and technical support, those service packages also include digital services such as the "adhesive assistant", which supports the optimal processing of the material and helps save time and costs.

The collaboration is fruitful: While BASF develops and manufactures highly specialized adhesives for glued timber construction, Türmerleim provides technical support and services and takes care of sales. In the future, both the product range and the comprehensive service packages will be further developed and expanded. //

