

KLEIBERIT 605.1 –

STP adhesive with outstanding properties



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An All-Rounder for Handicrafts

Classic PVAc glues are an everyday item for woodworkers and can be found in practically every workshop. Some situations, though, require a higher level of bonding strength. Kleiberit has launched a new product on the market for precisely such cases. The “605.1 STP” adhesive reliably bonds material combinations that are beyond the capabilities of conventional glues.



Nowadays, carpenters and joiners have an immense variety of materials available to them. Wood, glass, metals, foils, composite materials – creative woodworkers use all kinds of different things. “In doing so, they often face the question of which adhesive to use, with occasionally contradictory outcomes,” Leonhard Ritzhaupt, CEO at Kleiberit, knows from numerous client discussions.

The adhesives manufacturer from Weingarten therefore took a closer look at some typical application scenarios and the related challenges. “We took on the users’ question about how to glue such materials and material combinations together while meeting the highest quality and safety standards required of the final product,” Holger Scherrenbacher, graduate engineer in wood technology and head of the KLEIBERIT Technology Center, explains.

The result of the ensuing intensive research and development project is the “605.1 STP” adhesive with its exceptional properties for handicraft and industrial users. The reactive single-component adhesive hardens quickly, has high bonding strength, and displays “incredible adhesive properties,” according to Holger Scherrenbacher. To prove this, he and Project Manager Manuel Bloemer conducted an impact test in the inhouse Technology Center. Two blocks of wood were glued together and, after a short setting time, separated again with a splitting wedge and a heavy-duty hammer. The bonded surfaces remained undamaged: only the spruce wood itself broke apart. The bonding strength is due to the use of silane terminated polymer technology, from which the STP adhesive also takes its name. This group of compounds is always used whenever adhesives or sealants need to be solvent-free and isocyanate-free, yet still meet the high requirements for joining and structural bonding applications.

The good fluidity even allows for selective application with a squeeze bottle.

Project Manager
Manuel Bloemer
presents the special
properties of the
new adhesive to
Exakt editor Stefan
Bolz, in Kleiberit's
Technology Center.



Fotos: Bolz, Kleiberit

In fact, the processing properties are even better than in many conventional products. The adhesive is easy to apply with a putty spreader, brush, roller, or nozzle bottle, and it won't foam. As it does not contain water, no expansion or shrinkage occurs at the adhesive joint. On smooth surfaces, you only need to apply the adhesive to one side and, depending on the material quality, 100g to 200g are sufficient to cover a square meter of surface. Due to the good fluidity and viscosity, similar to classic PVAc

dispersions and single-component PUR adhesives, it can even be selectively applied with a squeeze bottle. Short pressing times are all that's needed for stable adhesion – without the need for a hardener or cross-linking agent. The glue joints have a high resistance to water, steam, heat and cold. "The properties have been tested according to DIN EN 204 D4 and DIN 14257," Marketing Manager Peter Mansky points out. The universal product is the ideal all-rounder for handicraft and

industrial uses, as it bonds perfectly on almost all surfaces. "605.1 STP" is only unsuitable for brass, copper, polypropylene, polyethylene and Teflon, which require special adhesives. For all other purposes, the adhesive is "a real problem-solver for handicraft and industrial applications," the experts promise. ■ sb

Find out more at:
www.kleiberit.com



The viscosity is similar to classic PVAc dispersions and single-component PUR adhesives.



The adhesive is very easy to apply with a putty spreader, brush, roller, or nozzle bottle.



After only a short time, the test samples in the experiment were no longer separable from the base material.

KLEIBERIT 605.1 STP adhesive

A real problem solver for handicraft and industrial application



- STP adhesive with outstanding properties
- one-component – reactive – flowable
- tested according to DIN EN 204 D4 and DIN EN 14257 (Watt 91)
- excellent adhesion properties on almost all materials
- application by brush, spatula, roller or nozzle aggregates



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our product
video