

Collano RP 2730

1C PUR adhesive, type I in accordance with EN 15425:2017
for load-bearing timber structures

Characteristics

Base

Polyurethane

Colour

Sandy, beige

Density

1.3 g/cm³

Solids content

100%

Fluidity

Slowing

Viscosity (Brookfield)

20'000–30'000 mPa·s

Form

Liquid

Storage

Metal drums:

9 months in unopened original packaging at 15–25 °C

Fluid-Bags

6 months in unopened original packaging at 15–25 °C



Application area and materials

Load-bearing applications

For surface and finger joints of load-bearing components made of spruce, fir and pine in accordance with EN 14080 (glued-laminated timber, glulam), EN 16351 (cross laminated timber) and EN 15497 (finger jointed solid timber).

Non load-bearing applications

In the general timber industry where there is a great need for bonding. For all common types of European wood. For tropical wood and types of wood with a high proportion of materials we recommend test bonding. For hard woods or other breathable materials. Important: For hardening, at least one joint part side must be against the moist glue joint.

Performance and material properties

Tested in accordance with EN 15425 by the Materials Testing Institute at the University of Stuttgart.

Project-based component testing can be performed at Collano for special applications.

Bond strength

Adhesive type according to EN 15425:2017 - I - 70 - GP - 0.3

Eco label

ecoBasis, does not violate any Minergie-ECO exclusion criteria

Packaging

Metal drums 50 kg and 240 kg

Fluid-Bags 1'100 kg

Application data

The curing behaviour of 1C PUR adhesives depends on the moisture content and temperature of the adherends and the ambient climate. All information is based on testing at a standard temperature (20 °C and 65% relative humidity) and a wood humidity of 12%. Different conditions may lead to deviations from the said specifications. Standard specifications must be absolutely adhered to for load-bearing applications (surface bonding EN 14080, structural finger joint adhesion EN 15497).

Adhesive application quantity

140–200 g/m²

Seamless wetting of the joint parts is required.

Pressed glued joints must have continuous, visible adhesive extrusion.

Pressure

0.6–1.0 N/mm² for load-bearing applications

0.1–1.0 N/mm² for general applications

Pressure must guarantee a joint strength of < 0.3 mm.

Material moisture content

8–15% for load-bearing applications

High humidity accelerates hardening, and low humidity delays it.

Application temperature

18–30 °C for load-bearing applications

10–30 °C for general applications

Joint parts, air and adhesive must be at appropriate temperatures.

Maximum open assembly time

< 30 minutes (maximum waiting time)

Adhesive must still be able to adhere when the pressure is applied.

Minimum press time

> 75 minutes at joint thickness of < 0.1 mm

Determined in accordance with EN 15416-5

Conditioning time

3 hours

Final strength

7 days

Guarantee

We guarantee the consistency and faultless quality of this product, manufactured in accordance with ISO quality standards, which has been developed on the basis of our long standing experience with the recommended applications under the specified conditions. Material, processing, and application conditions may significantly influence product properties. Pre-application tests by the user are therefore essential. For non-specified applications or deviations in application conditions, we recommend that Collano's technical support service be consulted first. Collano's general sales and delivery terms and conditions shall apply.

Application

For large areas or continuous bonded joints, apply the adhesive with a suitable applicator. Condition the adherends to match the climatic conditions of the intended application area before mating the adherends. Clean, grease-free and freshly planed surfaces are vital for optimal bond strength. Minimum hardening time of finger joint adhesives is based on a specified minimum pressing time with a 0.1 mm glued joint. For load-bearing applications, joints can have a maximum thickness of 0.3 mm. Prepare the joining process well and use product with appropriate usage properties.

Additional information

Components for load-bearing purposes must always be manufactured according to national or international specifications. The quality must be monitored in accordance with the product standards.

Clean-up

Wipe off any splashes of liquid adhesive using Collano HP 3000 or ethanol. Remove cured adhesive using Collano HP 3000.

Preventing and blocking adhesion

Collano HP 2000 can prevent adhesion to equipment, tools and machinery. Immersion in Collano HP 4000 prevents curing in applicator guns, casting tubes and applicator heads. For further information on cleaning and adhesion, please refer to the flyers on "Pretreatment and Cleaning of PUR Adhesives".

Safety

The wearing of protective gloves and safety goggles is recommended while handling the liquid product. Follow the instructions on the safety data sheet.

The current data sheets are available at:

collano.com/en/downloads