



## blaugelb 1C PUR Adhesive EPS XPS Wood

The viscoplastic bonding for permanent structures.

- **Construction adhesive with viscoplastic adhesive joint**
- **Very good adhesive properties on EPS, XPS, wood, PVC**
- **High weather resistance**
- **Solvent-free**

## Product features:

blaugelb 1C PUR Adhesive EPS XPS Wood is a construction adhesive based on polyurethane for bonding blaugelb products made of EPS material, for surface bonding of insulation panels made of XPS, for the production of sandwich elements, in wood processing and in various additional industrial areas.

It is suitable for various adhesions of blaugelb products made of EPS: For example, the surfaces of the blaugelb Insulation Panels EPS and MultiPro can be bonded together, or even the tongue and groove connection of the blaugelb Insulation Panel MultiPro or the dovetail connection on the blaugelb Plinth Thermal Insulation Profile EPS.

Double application of the blaugelb Plinth Thermal Insulation Profiles EPS is ideally secured with the blaugelb 1C PUR Adhesive EPS XPS Wood and makes it unnecessary to screw the profiles to one another.

Insulation panels made of XPS can also be bonded together. blaugelb 1C PUR Adhesive EPS XPS Wood is also highly suitable for use in the production of sandwich elements, of blaugelb frame extensions and other core combination elements made of EPS, XPS, PUR and PVC materials.

It is also suitable for adhesion of wood with stainless steel, e.g. as common with kick plates on wooden exterior doors. Also for bonding wooden parts (glued laminated timber, solid structural timber) in window construction, in the construction and cabinetmaker trade, in furniture construction, wooden stair construction, for carports and many other applications.

## Product benefits:

- Construction adhesive with viscoplastic adhesive joint
- Ideal for bonding blaugelb EPS products
- Good penetration in EPS material, resulting in good adhesion
- Varied adhesion spectrum on various materials\*
- High weather resistance
- Solvent-free

\*Carry out suitable pretests.

**Substrates:** EPS, XPS, wood (untreated), aluminium (painted, not anodised), rigid PVC, GRP (sanded), HPL, stainless steel (degreased).

## Technical data:

Material base:	Polyurethane, 1-component
Colour when cured:	Yellow
Curing system:	Moisture crosslinking
Skin forming time, wet at +20 °C: Sprayed with water, applied quantity 500 µm – PE/ PVC	Approx. 8 minutes
Density at +20 °C: <b>EN 542</b>	Approx. 1.12 g/cm <sup>3</sup>
Viscosity: Acc. to cone-plate (300 s <sup>-1</sup> ) at +20 °C	Approx. 10,500 mPa·s
Film:	Viscoplastic adhesive joint after curing
Pressing time at +20 °C:	Approx. 40 minutes

Pressing time at +40 °C:	Approx. 20 minutes
Curing time at +20 °C, 50 % RH: To approx. 75 %	Approx. 24 hours
Curing time at +20 °C, 50 % RH: Until the final strength is reached	Approx. 7 days
Applied quantity: Depending on the carrier material	Approx. 100 – 350 g/m <sup>2</sup>
Tensile shear strength: <b>DIN EN 1465</b> , beech at +20 °C	Approx. 8.5 N/mm <sup>2</sup>
Tensile shear strength: <b>DIN EN 1465</b> , beech at +80 °C	Approx. 5.5 N/mm <sup>2</sup>
Processing temperature: Adhesive and substrate	+5 °C to +30 °C
Temperature resistance: Cured adhesive joint	-40 °C to +110 °C
Moisture resistance:	Watt 91 and D4
Storage life:	12 months in unopened pack at +15 °C to +25 °C; store sealed tight in the original container in dry surroundings, not exposed to direct sunlight. The viscosity increases with decreasing reactivity over time during storage
Delivery form:	1 litre bottle
Hazard class acc. to VbF (German regulation concerning inflammable liquids):	None

Product name	PU	Item no.
blaugelb 1C PUR Adhesive EPS XPS Wood 1 litre	10 pc.	9208778

## Preparation and processing:

Acclimatise the blaugelb 1C PUR Adhesive EPS XPS Wood to the processing temperature before processing. The substrate must be firm, stable, dry, clean and free of grease, dust and loose parts. All traces of residue from separating agents used in production or protective films used in transit must be removed from the substrate. Before application, the suitability of the material for the intended application is to be verified through appropriate tests performed by the customer.

Bonding of EPS, XPS, rigid PVC: evenly apply blaugelb 1C PUR Adhesive EPS XPS Wood from the bottle cap in serpentine lines within the skin forming time on the parts to be bonded and then join them. Avoid cavities and air inclusions.

Bonding of wood: with gluing of solid wood, it is best to apply the adhesive to both bonding surfaces and press on with a pressure of > 1 N/mm<sup>2</sup>. When gluing wood outdoors, corresponding tests are to be carried out depending on the type of wood, intensity of weathering, surface protection and joint geometry etc. For outdoor gluing of larch, in particular, no 1C PUR adhesives can be used as the substances in the wood can severely compromise the bond strengths. We recommend white glue and epoxy adhesives.

Bonding metals: metals require pretreatment, depending on their properties. With galvanised sheeting, “white rust” must not be capable of forming. Sufficient internal tests are required. We recommend contacting the suppliers of the materials for the respective relevant information.

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Ready to use and with especially good adhesion.



## Cleaning and repair:

Residues of blaugelb 1C PUR Adhesive EPS XPS Wood can be cleaned while still fresh with blaugelb Aluminium Cleaner AL-ELP (item no. 0008432).

Once cured, the blaugelb 1C PUR Adhesive EPS XPS Wood can only be removed mechanically.

## Delivery and storage form:

Store in the original packaging in a cool, dry place and protect against direct sunlight and the effects of frost and heat. Can be stored for 12 months at a storage temperature between +15 °C and +25 °C.

The viscosity increases with decreasing reactivity over time during storage.

## Disposal:

The disposal conforms with the national specifications. Waste code for product and packaging: see safety data sheet

## Safety note:

Please note the safety data sheet. Only for trade use.