



A clear matter: Bonding and sealing with the blaugelb Hybrid Polymer Crystal



blaugelb Hybrid Polymer Crystal

The sealant and adhesive for the crystal-clear join.

- **Universally usable for sealing and bonding**
- **Crystal clear**
- **Moisture and temperature-resistant**
- **Weather-resistant**
- **Permanently elastic, compensates for unevenness and material movements**
- **Silicone, isocyanate and solvent-free**
- **Non-corrosive**
- **Odourless**
- **Exceptionally suited for time-critical application due to its fast processability**

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Product features:

The blaugelb Hybrid Polymer Crystal is a one-component, permanently elastic sealant and adhesive that cures crystal-clear. Formulated on the basis of a hybrid polymer, it exhibits high initial adhesion and rapid full cure.

Thanks to its crystal-clear transparency, the blaugelb Hybrid Polymer Crystal is ideal for bonding between or to glass indoors, but also for a large range of other applications (not as a glazing sealant). The blaugelb Hybrid Polymer Crystal is waterproof and weather-resistant and also resistant to many chemicals.

Thanks to its high initial adhesion, it can usually be applied without primer to almost all – even wet – substrates encountered in construction.

Applications:

In the construction and industrial area, for strain-free structural bonding and sealing of glass, metal, hardwood, plastic, concrete, polystyrene, cork, etc. Very suitable for bonding and sealing metal constructions, in ventilation construction, vehicle construction and many more areas.

Substrates:

Glass, metals (steel, aluminium, brass, zinc, etc.), cork, concrete, stone (except porous natural stone types), enamel, glass, wood, HPL, plastics (polystyrene, polycarbonate, PVC, polyamide, GRP). Do not use on PE, PP, PTFE or silicones, PMMA or ABS.

Product benefits:

- Universally usable for sealing and bonding
- Crystal clear
- Very good processability
- Moisture and temperature-resistant
- Weather-resistant
- Permanently elastic, compensates for unevenness and material movements
- Silicone, isocyanate and solvent-free
- Non-corrosive
- Odourless
- Exceptionally suited for time-critical application due to its fast processability
- Cured by atmospheric humidity from outside inwards
- Very good coatability according to DIN 52452-A1*, can be painted over wet-in-wet
- Suitable for all standard construction surfaces*
- Building material class E (DIN EN 13501-1)

*Carry out suitable pretests.

Technical data:

Material base:	1C hybrid polymer
Colour:	Crystal clear
Curing system:	Polymerisation by atmospheric humidity
Building material class: DIN EN 13501-1	Class E
Curing speed: at 23 °C and 50 % RH	Approx. 2-3 mm / 24 hrs.
Skin formation: At 23 °C and 50 % RH	Approx. 10 minutes
Density: DIN 53479	1.04 g/ml
Shore A hardness: DIN 53505	38 +/- 5
Max. permissible deformation: DIN EN ISO 11600	20 %
Change in volume: DIN EN ISO 10563	-3 to -4 vol. %
Tensile strength: DIN 53504	2.4 N/mm ²
Tensile shear strength: DIN 53504	1.0 N/mm ²
Modulus of elasticity 100 %: DIN EN ISO 8339	0.8 N/mm ²
Elongation at break: DIN 53504	300 %
Elastic recovery: ISO 7389-B	> 75 %
Solvent content:	Free
Isocyanate content:	Free
Processing temperature:	Ambient: 0 °C to +40 °C Substrate: 0 °C to +35 °C
Temperature resistance:	From -40 °C to +90 °C
Moisture resistance:	Waterproof
Overpainting:	Very good coatability according to DIN 52452-A1, can be painted over wet-in-wet
Shelf life:	12 months in unopened pack at +5 °C to +25 °C
Delivery form:	290 ml cartridge or 600 ml tubular bag

Product name	PU	Item no.
blaugelb Hybrid Polymer Crystal 290 ml crystal clear	12 cartridges	0426600
blaugelb Hybrid Polymer Crystal 600 ml crystal clear	12 bags	9257165

Preparation and processing:

The substrate must be firm, stable, clean and free of grease, dust and loose parts. The blaugelb Hybrid Polymer Crystal also adheres to moist surfaces and even under water, but the best tack values are achieved on dry substrates.

Before application, the suitability of the material for the intended application is to be verified through appropriate tests performed by the customer.

Curing takes place by reaction with atmospheric humidity from the outside inwards, and therefore slows down as time passes. Curing also slows down at low temperatures and/or if atmospheric humidity is low. The blaugelb Hybrid Polymer Crystal can be smoothed off before skin formation.

The information provided in this document corresponds to the information and technical details available to the best of our knowledge. However, this does not constitute a guarantee pursuant to section 443 of the German Civil Code (BGB). Our processing instructions are to be considered only as general guidelines and may differ in the individual case due to the range of possible uses and applications. They do therefore not automatically exempt the user from carrying out their own tests. We reserve the right to make technical modifications and enhancements at any time.

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Cleaning and repair:

Before curing, it can be cleaned using turpentine substitute; after curing, the blaugelb Hybrid Polymer Crystal can be removed with a silicone remover or mechanically. Repairs to the joint of the blaugelb Hybrid Polymer Crystal can be performed using the same material.

Delivery and storage form:

Store in the original packaging in a dry place and protect against effects of frost and heat. Can be stored in the unopened packaging for 12 months at a storage temperature between +5 °C and +25 °C.

Disposal:

The disposal conforms with the national specifications.

Safety note:

Please note the safety data sheets.