

UHU® POLY MAX® CRYSTAL EXPRESS

UNIVERSAL, CRYSTAL CLEAR ASSEMBLY ADHESIVE AND SEALANT WITH FAST FINAL STRENGTH BUILD-UP.



PRODUCT DESCRIPTION

Universal, crystal clear assembly adhesive and sealant based on unique SMP technology, with fast final strength building. For bonding, fixing and sealing almost all (construction) materials on almost all surfaces (both smooth, porous and non-porous surfaces). Extra strong. Crystal clear. Super fast.

FIELD OF APPLICATION

Bonding: e.g. glass, stone, natural stone, concrete, plasterwork, many synthetic materials, wood, chipboard, Trespa®, iron, aluminium, zinc, steel, stainless steel and other metals, ceramic tiles, cork and mirrors.

Fixing: e.g. skirting boards, lathing, window sills, doorsteps, roof edges, construction boards, insulation materials, gypsum boards, polystyrene ornaments and decorative frames.

Sealing: e.g. skirting boards (synthetics), window frames, stair steps, window sills, doorsteps and drywalls. Also suitable for sealing cracks in walls and ceilings. Not suitable for PE, PP, PTFE and bitumen. When gluing plastics always perform an adhesion test first. Adhesion to plastics can vary depending on the type of synthetic and the quality of the plastic.

PROPERTIES

- Crystal clear
- Very high final bond strength
- Super-fast building of final bonding strength
- Permanently elastic
- Can be used internally and externally
- Paintable (test first)
- Good filling capacity
- Resistant to temperatures between -40°C and +100°C
- Water and all-weatherproof
- 100% adhesive (non-shrinking)
- Also bonds to slightly damp surfaces
- Solvent-free
- Mould resistant
- Excellent bonding without primer
- Acid-free, odourless

PREPARATION

Working conditions: Only apply at temperatures between +5°C and +40°C.

Surface requirements: Both parts must be solid, clean, free of dust and grease. Use of primer not required. The surface may be slightly moist.

Tools: Apply cartridge contents using a sealant gun (e.g. UHU Power Pistol). If necessary, use a rubber mallet to tap lightly.

APPLICATION

Coverage: With spot bonding: 5-8 m²/kg. Stripes: one cartridge issues approx. 8-15 metres of adhesive (depending on the diameter of the cut nozzle).

Directions for use:

Before using open cartridge at the top by cutting off the plastic nipple above the thread with a sharp knife. Fix the nozzle onto the cartridge and cut at an angle to the desired diameter. **Bonding and fixing:** Cut the nozzle to a diameter of at least 0.5 cm. **Sealing:** Cut the nozzle at an angle to the desired joint width. **Bonding and fixing:** Apply in stripes or dots (every 10 - 40 cm). Always apply to the corners and along the edges of construction boards. Correctly position material within 10 minutes and press firmly or lightly tap with a rubber mallet. If necessary, clamp or fixate heavy materials for 4 hours. Can be handled after 2 hours (the connection is now strong enough to withstand transportation or a light load); maximum final strength after approx. 4 hours, depending on the surface and the ambient conditions.

Sealing: Evenly apply to the bottom of the joint and tool within 10 minutes using a moistened (with soapy water without lemon) putty knife, sealant smoother, or finger. Tool the vertical joints from bottom to top. Fully cured after a few days (depending on the thickness of the layer). When painting over with alkyd paint, the paint may dry more slowly.

Stains/residue: Use white spirit for cleaning tools and removing wet adhesive residue. Dry adhesive residue can only be removed mechanically.

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Points of attention: The following drying times are based on bonding at least one porous material and an adhesive layer of approx. 1 mm thickness. If two non-porous materials are being bonded and/or the layer of adhesive is thicker, the drying times may be substantially longer. When adhesive is applied underwater, it may turn white. Avoid direct contact with UV radiation (eg. By sealing applications outdoors).

CURE TIMES*

Skinover time: approx. 35 minutes.

Handling time: approx. 2 hours

Cure rate: approx. 2 mm/24 hrs

Final bonding strength after: approx. 4 hours

* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

TECHNICAL PROPERTIES

Moisture resistance: Very good

Water resistance: Good

Temperature resistance: From -40°C to +100°C.

UV resistance: Moderate

Mildew resistance: Good

Chemicals resistance: Very good

Paintability: Paintable with acrylic and alkyd paint. Alkyd paint may slow down drying process. Always test in advance.

Elasticity: Good

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Chemical base: Silyl Modified Polymer

Colour: Transparent

Viscosity: approx. Pasty

Solid matter: approx. 100 %

Density: approx. 1.04 g/cm³

Tensile strength: approx. 220 N/cm²

Shear strength: approx. 290 N/cm²

Flash point: K3 (>55°C)

Shrinkage: approx. 0 %

Hardness (Shore A): approx. 45

Elongation of rupture: approx. 250 %

STORAGE CONDITIONS

At least 18 months after production. Limited shelf life after opening. Close container properly and store in a dry, cool and frost-free place.

Note: This information is the result of carefully executed tests. This Technical Data Sheet has been prepared to the best of our knowledge to provide you with advice when gluing. We cannot be held responsible for the results or any damage suffered, as the variety of factors involved (type and combination of materials and working method) are beyond our control. Users have to carry out their own checks and trials. Liability can only be accepted for the consistently high quality of our product.