

POLY MAX® CRYSTAL

SUPER STRONG, CRYSTAL CLEAR ALDOER FOR ANY JOB. FOR BONDING, FIXING AND SEALING.



PRODUCT DESCRIPTION

Universal, crystal clear construction adhesive and sealant based on unique SM Polymer technology. For bonding, fixing and sealing at the same time. Suitable for practically all (building) materials and all surfaces (even, porous and non-porous). Crystal clear, extra strong and permanently elastic. Replaces construction adhesive, wood adhesive, wood construction adhesive, PU-adhesive, silicone sealant and acrylic sealant.

FIELD OF APPLICATION

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

Fixing: e.g. skirting boards, laths, timber framework, window sills, doorsteps, roof fascias, panelling and insulation material, gypsum boards, polystyrene ornaments and decorative edgings.

Sealing: applications in construction: connecting joints in (plastic) window frames, roof fascias, roofs, roof gutters, walls, skylights and chimneys. Sealing joints between window panes and frames. Not suitable for polyethylene (PE), polypropylene (PP), PTFE, PA (nylon), acrylic glass (plexiglas) and bitumen.

PROPERTIES

- Crystal clear
- Very high final bond strength
- Permanently elastic
- Can be used indoors and outdoors
- Paintable (test first)
- Good gap filling capacity
- Resistant to temperatures from -40°C to +100°C
- Water, UV and weather resistant
- 100% adhesive (non-shrinking)

- Bonds to slightly moist substrates
- Curing: 2 mm/24 hours
- Solvent-free
- Mould proof
- Excellent adherence without primer
- Acid-free, odourless
- With resealable nozzle

PREPARATION

Working conditions: Use only at temperatures between +5°C and +40°C.

Preliminary treatment: Surface must be clean and free of dust and grease. Use of primer not required. Surfaces may be slightly moist. Surface must be solid.

Tools required: Use sealant gun (e.g. Bison Click Gun) to handle cartridge.

APPLICATION

Coverage: Spot bonding: approx. 5-8 m²/kg. Line bonding: 8-15 m for 1 cartridge (depending on diameter of cut off nozzle).

Directions for use:

Bonding and fixing: Cut off nozzle to a diameter of at least 0.5 cm.

Sealing: Cut off nozzle slantwise at required joint width. Bonding and fixing: Apply adhesive evenly in vertical strips or dots (every 10-40 cm). Always apply adhesive at corners and along edges of board material. Attach materials within 10 minutes and press firmly or tap lightly with a rubber mallet. If necessary, secure or support heavy materials for 24 hours.

Sealing: Apply sealant until bottom of joint and tool within 10 minutes with a wet (water with washing up liquid without lemon), filling knife, sealant smoother or finger. Tool vertical joints from bottom to top. Surface skin after approx. 15 minutes. Complete cure after a few days (depending on layer thickness).

Stains/residue: Immediately remove wet stains with turpentine. Dried adhesive residue can only be removed mechanically.

CURE TIMES

Skin over time: approx. 35 minutes.

Cure rate: approx. 2 mm/24 hrs

Full bond strength: Full bond strength after approx. 24 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: Very good

Chemicals resistance: Very good

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

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Base: Silyl Modified Polymer

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.

Colour: Transparent

Viscosity: Pasty

Solid contents: approx. 100 %

Density: approx. 1,04 g/cm³

Tensile strength: approx. 210 N/cm²

Shear strength: approx. 290 N/cm²

Flash point: K3 (>55°C)

Shrinkage: approx. 0 %

Hardness (Shore A): approx. 45

Elasticity E-modulus: approx. 0,9 MPa

Elongation of rupture: approx. 250 %

SHELF LIFE

At least 12 months after date of manufacture. Limited shelf life after opening.

Store in a well-sealed packaging in a dry, cool and frost-free place.