

POLY MAX® CRISTAL EXPRESS

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



PRODUCT DESCRIPTION

Universal, crystal clear, high-quality construction adhesive and sealant based on unique SMP technology with super fast final strength build-up. 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. indoor applications at (plastic) window frames, steps, skirting boards, window sills, doorsteps, and gypsum boards. Also suitable for sealing cracks in walls and ceilings. Not suitable for polyethylene (PE), polypropylene (PP), PTFE and bitumen.

PROPERTIES

Crystal clear Very high final strength Super fast final strength build-up Permanently elastic For indoor and outdoor applications Paintable (test in advance) Good filling capacity Temperature resistant from -40°C to +100°C Water and weather resistant 100% adhesive (no shrinkage) Adheres to slightly humid surfaces Solvent-free Excellent adhesion without primer Acid-free, odourless With resealable nozzle

PREPARATION

Working conditions: Only apply at temperatures between +5°C and +40°C. **Surface requirements:** The surface must be dry, clean and free of dust and grease. A primer is not required. The surface can be slightly humid.

Tools: Use sealant 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 4 hours. Can be handled after 2 hours, when the connection is strong enough to be transported or to be submitted to a light charge. Maximum final strength is reached after approx. 4 hours, depending on substrate (at least 1 porous material) and ambient conditions. **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.

Points of attention: The mentioned drying times are based on the bonding of at least one porous material and an adhesive layer thickness of approx. 1 mm. When bonding two non-porous materials or when the adhesive layer thickness is more than 1 mm, drying times will be significantly longer. The adhesive may turn white when applied under water.

CURE TIMES

Skin over time: approx. 10-15 minutes.

Handling time: approx. 2 hours

Cure rate: approx. 2 mm/24 hrs

Full bond strength: Full bond 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: Pasty



Solid contents: approx. 100 %

Density: approx. 1.04 g/cm³

Tensile strength: approx. 220 N/cm²

Shear strength: approx. 250 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 date of manufacture. Limited shelf life after opening.

Close container properly and store in a dry, cool and frost-free place.