

POLY MAX® CRYSTAL 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.

APPLICATION

Directions for use:

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 (at least 1 porous material) 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.

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.

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: Good

Paintability: Paintable with both acrylic and alkyd paints. When painting over with alkyd paint, the paint may dry more slowly. 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.