

POLY MAX® ORIGINAL EXPRESS

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



PRODUCT DESCRIPTION

Universal, 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). Can be used indoors and outdoors. Super fast. Extra strong.

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. (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

Super fast final strength build-up Very high final strength Permanently elastic For indoor and outdoor applications Paintable (test in advance) Good filling capacity Temperature resistant from -40°C to +100°C UV, 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 depending on desired joint width. **Bonding and fixing:** Apply adhesive in lines or dots (every 10-40 cm), plus always at corners and along edges of board material. Fix material on the right spot within 10 minutes and press or tap lightly with a rubber mallet. If necessary, secure or support heavy materials for 4 hours. Can be handled after 30 minutes: the bond will be strong enough to be transported or be subjected to a light load. Max. final bond strength is reached after 4 hours, depending on substrate and working conditions.

Sealing: Apply sealant down to the bottom of the joint and tool within 10 minutes with a moist (soap water without lemon) putty knife, sealant smoother or finger. Tool vertical joints from bottom to top. Surface skin after approx. 15 minutes, complete cure after several days (depending on layer thickness).

Stains/residue: Use white spirit to clean tools and remove fresh stains. 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.

CURE TIMES

Skin over time: approx. 10-15 minutes

Handling time: approx. 30 minutes

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: Very good

Chemicals resistance: Good

Paintability: Paintable with acrylic and alkyd paints. Alkyd paint may slow down curing process. Always test first.

Elasticity: Good

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Chemical base: Silyl Modified Polymer

Colour: White

Viscosity: Pasty

Solid contents: approx. 100 %

Density: approx. 1.47 g/cm³

Tensile strength: approx. 260 N/cm²



Shear strength: approx. 340 N/cm²

Flash point: K3 (>55°C)

Shrinkage: approx. 0 %

Hardness (Shore A): approx. 60

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.

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.