

# 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. If necessary, use a rubber mallet to tap lightly.

### APPLICATION

**Coverage:** Spot bonding: approx. 5-8 m<sup>2</sup>/kg. Line bonding: 8-15 m for 1 cartridge (depending on diameter of cut off nozzle).

### Directions for use:

**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 30 minutes (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.

**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.

### 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 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:** Black

**Viscosity:** Pasty

**Solid contents:** approx. 100 %

**Density:** approx. 1.47 g/cm<sup>3</sup>



**Tensile strength:** approx. 260 N/cm<sup>2</sup>

**Shear strength:** approx. 340 N/cm<sup>2</sup>

**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.