

# POLY MAX® ORIGINAL

## REVOLUTIONARY ADHESIVE SEALANT FOR ANY BONDING, FIXING OR SEALING JOB.



### PRODUCT DESCRIPTION

Universal, high quality assembly adhesive and sealant based on unique SM Polymer technology. For bonding, fixing and sealing practically all (construction) materials to practically all substrates (smooth, porous and non-porous substrates). Can be used indoors and outdoors, extra strong, permanently elastic. Replaces assembly -, wood - and PU -adhesives as well as silicone and acrylic sealants.

### FIELD OF APPLICATION

**Bonding:** a.o. glass, stone, natural stone, concrete, plasterwork, many plastics, wood, chipboard, trespas, iron, aluminium, zinc, (stainless) steel and other materials, ceramic tiles, cork and mirrors.

**Fixing:** skirting boards, laths, lathing, window sills, doorsteps, roof fascias, construction boards, 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 of glazing. Not suitable for polyethylene (PE), polypropylene (PP), PTFE, PA (nylon), acrylic glass (plexiglass) and bitumen.

### PROPERTIES

- Can be used indoors and outdoors
- Very high final bond strength
- Permanently elastic
- Paintable (test first)
- Good filling capacity
- Resistant to temperatures from -40°C to +100°C
- Water, UV and weather resistant
- 100% adhesive, no shrinkage
- Bonds to slightly humid substrates

- Cure rate 2 mm/24 hrs
- Solvent free
- Mould resistant
- Excellent adherence without primer
- Acid-free, odourless
- With resealable nozzle

### PREPARATION

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

**Preliminary surface treatment:** Surface must be clean, and free of dust and grease. No primer needed. Surface may be slightly humid. Ensure substrate is solid.

**Tools:** Use sealant gun (e.g. Bison Power Pistol) to handle cartridge.

### 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 off nozzle at a diameter of at least 0.5 cm. **Sealing:** Cut off nozzle slantwise, depending on desired joint width. **Bonding and fixing:** apply adhesive sealant on one side in dots or lines (every 10-40 cm). Always apply adhesive sealant in corners and along edges of board material. Join parts in the right position within 10 minutes and press firmly or tap lightly with a rubber mallet. If necessary, secure or support heavy materials for 24 hours. **Sealing:** inject adhesive sealant evenly into joint and tool within 10 minutes with a moist putty knife, sealant smoother or finger (preferably wetted with soap water without lemon). Tool vertical joints from bottom to top. Surface skin after approx. 15 minutes. Complete cure after several days (depending on layer thickness). When painted with alkyd paint, the drying process may be slower than normal.

**Stains/residue:** Remove fresh stains immediately with white spirit. Dried residue can only be removed mechanically.

### CURE TIMES

**Skin over time:** approx. 10-15 minutes

**Handling time:** approx. 24 hours

**Cure rate:** approx. 2 mm/24 hrs

**Full bond strength:** Full bond strength after approx. 48 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:** -40°C to +100°C.

**UV resistance:** Very good

**Mould resistance:** Very good

**Chemicals resistance:** Very good

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

**Elasticity:** Very Good

**Filling capacity:** Very good

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.



## TECHNICAL SPECIFICATIONS

**Base:** Silyl Modified Polymer

**Colour:** White

**Viscosity:** approx. 1234 mPa.s., Pasty

**Solid contents:** approx. 100 %

**Density:** approx. 1,53 g/cm<sup>3</sup>

**Tensile strength:** approx. 250 N/cm<sup>2</sup>

**Shear strength:** approx. 320 N/cm<sup>2</sup>

**Flash point:** K3 (>55°C)

**Shrinkage:** approx. 0 %

**Hardness (Shore A):** approx. 60

**Elasticity E-modulus:** approx. 1,8 MPa

**Elongation of rupture:** approx. 240 %

## SHELF LIFE

At least 18 months after date of manufacture. Limited shelf life after opening.

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