



POLY MAX® FIX & SEAL EXPRESS

SOLVENT-FREE ASSEMBLY ADHESIVE AND SEALANT WITH VERY HIGH ELASTICITY AND VERY FAST STRENGTH GAIN



PRODUCT DESCRIPTION

Solvent-free assembly adhesive and sealant based on SMP-Polymer with very high elasticity and very fast strength gain. Ideal for fixing and sealing at the same time.

FIELD OF APPLICATION

For bonding and fixing many construction materials on practically all surfaces, such as wood, plaster, (natural) stone, (cellular) concrete, metal, hard foam and various plastics. Suitable for internal and external applications, such as timber framework, skirting boards, laths, window sills and sheet and insulation materials. Also suitable for sealing joints, seams and cracks in (synthetic) window frames, roof fascia, roofs, gutters, walls, skylights and chimneys. For all professional applications including wall and interior construction, house, utility and bodywork building. Not suitable for PE, PP, PTFE, pure plaster and bitumen. When gluing plastics always perform an adhesion test first. Adhesion to plastics can vary depending on the type of synthetic and the quality of the plastic.

PROPERTIES

- Very high, permanent elasticity
- Very fast strength gain
- Very good filling capacity
- Good standing power
- Non-shrinking; 100% adhesive
- Solvent-free
- No soiling of joint edges
- All-weather resistant
- Resistant to temperatures between -40°C and +100°C
- Paintable
- Curing ca. 2 mm/24 hours
- Mildew resistant

QUALITY LABELS/STANDARDS

Certificates: EMICODE: Classification system (GEV) of emission properties for construction products in indoor areas. EC-1 Plus (Very low emission Plus)
TÜV: Approved and certified by TÜV Rheinland on shear strength, tensile strength, elasticity and adhesion to different materials. Certificate TÜV 43168.

PREPARATION

Working conditions: The ambient temperature, the adhesive and the materials to be bonded should be no less than +5°C.

Preliminary surface treatment: Surfaces must be clean, dust- and grease-free. Surface must be solid. The surface may be slightly moist. Use of primer not required.

Tools: Cartridge gun and rubber hammer.

APPLICATION

Coverage: With spot bonding: 5-8 m²/kg. Stripes: one cartridge issues approx. 8-15 metres of adhesive (depending on the diameter of the cut nozzle).

Directions for use:

BONDING/ASSEMBLING: Cut off screw thread, assemble nozzle and cut to a diameter of at least 0.5 cm. Depending on the weight of the material, apply the adhesive evenly in vertical strips or dots at intervals of between 10 and 40 cm. Always apply adhesive to the corners and along the edges. Assemble materials with a pushing movement and press or knock firmly together. Correction is still possible. For heavy materials, fastenings or supports may be required. Close the cartridge properly immediately after use.

SEALING: Cut off screw thread, assemble nozzle and cut at an angle to the desired joint width. Apply the sealant to the bottom of the joint and tool within 10 minutes using a wet finger (water with washing up liquid without lemon), putty knife or sealant smoother. Tool the vertical joints from bottom to top. Close the cartridge properly immediately after use.

Stains/residue: Remove adhesive residues immediately with white spirit. 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*

Skinover time: approx. 10-15 minutes

Handling time: approx. 30 minutes. This might vary, based on circumstances, like temperature and humidity.

Cure rate: approx. 2 mm/24 hrs

Drying/Curing time: approx. 4 hours. This might vary, based on circumstances, like temperature and humidity.

* 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 - +100°C



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UV resistance: Good
Mildew resistance: Good
Chemicals resistance: Good
Paintability: Good
Elasticity: Good
Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Chemical base: SMP Polymer
Colour: Black
Viscosity: approx. Thixotropic
Solid matter: approx. 100 %
Density: approx. 1.42 g/cm³
Tensile strength: approx. 250 N/cm²
Shear strength: approx. 350 N/cm²
Flash point: K3 (>55°C)
Shrinkage: approx. 0 %
Hardness (Shore A): approx. 60
100% modulus: approx. 1.9 MPa
Elongation of rupture: approx. 250 %

STORAGE CONDITIONS

A minimum of 18 months. Best Before Date (MM/YY): see packaging. Limited shelf life after opening. Store dry in sealed packaging between +5°C and +25°C.