POLY MAX® ORIGINAL
UNIVERSAL ASSEMBLY ADHESIVE AND SEALANT, WITH EXTRA HIGH FINAL BONDING STRENGTH.

PROPERTIES

· Can be used internally and externally
· Very high final bond strength
· Permanently elastic
· Paintable (test first)
· Good filling capacity
· Resistant to temperatures between -40°C and +100°C
· UV, water and all-weatherresistant
· 100% adhesive (non-shrinking)
· Also bonds to slightly damp surfaces
· Solvent-free
· Mould resistant
· Excellent bonding without primer
· Acid-free, odourless
· With resealable spout

PREPARATION

Working conditions: Only apply at temperatures between +5°C and +40°C.
Preliminary surface treatment: The surface must be dry, clean and free of dust and grease. Use of primer not required. The surface may be slightly moist.
Tools: Apply cartridge contents using a sealant gun (a Bison Power Pistol, for example). If necessary, use a rubber mallet to tap lightly.

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:
Before using open cartridge at the top by cutting off the plastic nipple above the thread with a sharp knife. Fix the nozzle onto the cartridge and cut at an angle to the desired diameter. 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 24 hours. Maximum final bond strength after approx. 48 hours, depending on the substrate and the ambient circumstances.

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.

PRODUCT DESCRIPTION

Universal, high-quality assembly adhesive and sealant based on unique SM Polymer technology with very high final bonding strength. For bonding, fixing and sealing almost all (construction) materials on almost all surfaces (both smooth, porous and non-porous surfaces). Replaces assembly adhesive, wood adhesive, construction adhesive, PU adhesive, silicone sealant and acrylic sealant. Can be used indoors and outdoors. Extra strong. Permanently elastic.

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: Construction applications: connection joints in (synthetic) frames, roof edges, roofs, roof gutters, walls, skylights and chimneys. Sealing joints between window frames and panes. Not suitable for PE, PP, PTFE 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.

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CURE TIMES*

Skinover time: approx. 10-15 minutes

Handling time: approx. 24 hours. This might vary, based on circumstances, like temperature and humidity.

Cure rate: approx. 2 mm/24 hrs

Drying/Curing time: approx. 48 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℃ - +100℃

UV resistance: Good

Mildew resistance: Good

Chemicals resistance: Good

Paintability: Good

Elasticity: Good

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Chemical base: SMP Polymer

Colour: White

Viscosity: approx. Thixotropic

Solid matter: approx. 100 %

Density: approx. 1.62 g/cm^3

Tensile strength: approx. 150 N/cm^2

Shear strength: approx. 200 N/cm^2

Flash point: K3 (>55℃)

Shrinkage: approx. 0 %

Hardness (Shore A): approx. 60

100% modulus: approx. 1.4 MPa

Elongation of rupture: approx. 150 %

STORAGE CONDITIONS

At least 18 months after production. Limited shelf life after opening. Close container properly and store in a dry, cool and frost-freeplace.

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