WOOD MAX EXPRESS POWER

EXTRA STRONG, FAST, WATERPROOF, GAP FILLING SMP WOOD CONSTRUCTION ADHESIVE



PRODUCT DESCRIPTION

Extremely strong, fast, waterproof, di-isocyanate free and filling wood construction adhesive based on SMP-Polymer.

FIELD OF APPLICATION

For waterproof (D4) (surface) bonding of practically all types of wood as well as bonding practically all types of wood to many building materials, such as gypsum, (natural) stone, (cellular) concrete, metal, hard foam and various synthetics. Suitable for non-load bearing wooden structures using various wood joints such as mortise and tenon joints, dowels and springs. Suitable for interior and exterior applications, such as façade carpentry and sandwich panels. Very suitable for less-fitting joints (for example, unplaned wood). Ideal for both vertical and horizontal applications. D4: Interiors where flowing water or condensation are present over long periods on a regular basis. Exteriors exposed to the influences of the weather, providing effective protection for bonded wood.
Not suitable for PE (polyethylene), PP (polypropylene) and PTFE

PROPERTIES

· Very fast (firm to touch in 30 minutes)
· Extremely high final bond strength (110 kg/cm²)
· Waterproof (D4)
· PU & Solvent free
· Very good filling capacity (up to 4 mm)
· Can be scraped immediately
· Permanently flexible
· Paintable
· All-weather resistant
· UV resistant
· Thixotropic
· Good standing power; does not drip
· Innovative formula: patent pending

CERTIFICATES & STANDARDS

Certificates	
KOMO®	KOMO: Adhesives for non-bearing applications. Certificate 32394 based on BRL 2339 (EN 204: D4 Class, Watt '91).
ATG	ATG: Adhesives for non-load bearing wooden structures (EN 204: D4 category, EN 14256, EN 14257 (Watt '91)). Certificate ATG 3125.
	IFT: Classification of thermoplastic wood adhesives for non-structural applications according to EN 204:2016-08. Number: 19-002237-PR01 (NW-K15-09-en-01)
	IFT: Determination of tensile strength of lap joints at elevated temperature (WATT '91) according to EN 14257:2006. Number: 19-002237-PR02 (NW-K15-09-en-01)

Standards	
EN 204 D4	EN 204: Classification of thermoplastic wood adhesives for non-structural applications: D4

PREPARATION

Working Conditions: The ambient temperature, the adhesive and the materials to be bonded should not be less than +5°C. Wood humidity must preferably be between 10% and 18% (max. 25%).
Surface Requirements: Surfaces must be clean, dust- and grease-free.
Preliminary Surface Treatment: Degrease oily types of wood with Griffon Cleaner. Roughen non-porous materials.
Tools: Sealant gun, fine-toothed adheisve spreader (1 mm), brush, roller, clamp.

APPLICATION

Coverage: With spot bonding: 5-8 m²/kg. Stripes: one cartridge issues approx. 8-15 metres of adhesive (nozzle opening 3 mm = ±15 metres – nozzle opening 5 mm = ±8 metres).
Directions for use:
Apply the adhesive evenly directly from cartridge on both sides (for the best result) with a sealant gun. Where needed spread further with sealant gun, glue spreader, brush or roller. Ensure adequate layer thickness. Assemble joint within 5 minutes and fixate for at least 30 min. No pressing. If clamped, use a limited pressure to avoid too much adhesive to be pushed out of the bond.
Stains/residue: Remove wet adhesive residue immediately. Dry adhesive residue can only be removed mechanically.

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.

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TECHNICAL SPECIFICATIONS

Chemical base:	SMP Polymer
Chemicals resistance:	Good
Colour:	Beige (mixture)
Cure rate:	1 mm/24h
Density approx.:	1,33 g/cm³
Elasticity:	Nil
Filling capacity:	Very good
Final bond strength:	1.100 N/cm²
Final bond strength after:	8 hours. This might vary, based on circumstances, like materials, temperature and humidity.
Hardness (Shore A):	95
Initial Bonding after:	30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.
Initial bond strength:	100 N/cm²
Minimum temperature resistance:	-40 °C
Maximum temperature resistance:	120 °C
Moisture resistance:	Very good
Paintability:	Very good
Shrinkage approx.:	0 %
Skinover time:	5 minutes
Solid matter approx.:	100 %
UV resistance:	Good
Viscosity:	Thixotropic
Water resistance:	Very good
Wood glue classification:	D4

STORAGE CONDITIONS

Shelf life: At least 18 months after production.
Store in properly sealed packaging in a dry place at between +5°C and +25°C.
Limited shelf life after opening.

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