

## **POLY MAX® HIGH TACK EXPRESS**

# UNIVERSAL CONSTRUCTION ADHESIVE AND SEALANT WITH HIGH INITIAL GRIP AND FAST FINAL STRENGTH BUILD-UP



PRODUCT DESCRIPTION

Universal assembly adhesive and sealant based on unique SMP technology, with high initial bond strength and 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). Very high initial grip. Super fast. 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: e.g. skirting boards (synthetics), window frames, stair steps, window sills, doorsteps and drywalls. Also suitable for sealing cracks in walls and ceilings. 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.

### **PROPERTIES**

- · Very high initial bond strength
- · Super-fast building of final bonding strength
- · Very high final bond strength
- · Permanently elastic
- · Can be used internally and externally
- · 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
- · Excellent bonding without primer
- · Acid-free, odourless

### **CERTIFICATES & STANDARDS**

### **Certificates**



TÜV: Approved and certified by TÜV Rheinland on shear strength, tensile strength, elasticity and adhesion to different materials. Certificate TÜV 43168.



EMICODE: Classification system (GEV) of emission properties for construction products in indoor areas. EC-1 Plus (Very low emission Plus)

### **PREPARATION**

**Working Conditions:** Only apply at temperatures between +5 °C and +40 °C.

**Surface Requirements:** Both parts must be solid, clean, free of dust and grease. Use of primer not required. The surface may be slightly moist.

**Tools:** If necessary, use a rubber mallet to tap lightly.

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.



### Y MAX® HIGH TACK EXPRESS

### UNIVERSAL CONSTRUCTION ADHESIVE AND SEALANT WITH HIGH INITIAL **GRIP AND FAST FINAL STRENGTH BUILD-UP**

#### **APPLICATION**

Coverage: With spot bonding: 5-8 m<sup>2</sup>/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 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.

### TECHNICAL SPECIFICATIONS

100% modulus:       2.2 MPa         Chemical base:       SMP Polymer         Chemicals resistance:       Good         Colour:       White         Cure rate:       1.5 mm/24h         Density approx.:       1.53 g/cm³         Elasticity:       Good         Elongation of rupture:       250 %         Filling capacity:       Very good         Final bond strength:       350 N/cm²         Final bond strength after:       4 hours. This might vary, based on circumstances, like materials, temperature and humidity.         Hardness (Shore A):       65         Initial Bonding after:       30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.         Minimum temperature resistance:       -40 °C         Maximum temperature resistance:       Good         Moisture resistance:       Very good         Maintability:       Good         Shear strength:       350 N/cm²         Skinover time:       5-10 minutes         Solid matter approx.:       100 %         Solvent free:       Yes         Tensile strength (N/cm²) approx.:       Good         UV resistance:       Good         Viscosity:       Pasty         Water resistance: <td< th=""><th>TECHNICAL SPECIFICATIONS</th><th></th></td<>	TECHNICAL SPECIFICATIONS	
Chemicals resistance:  Colour:  White  Cure rate:  1.5 mm/24h  Density approx.:  Elasticity:  Good  Elongation of rupture:  Filling capacity:  Final bond strength after:  Initial Bonding after:  Initial Bonding after:  Maximum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Moisture resistance:  Moisture resistance:  Solid matter approx.:  Inou %  Solvent free:  Yes  Tensile strength (N/cm²) apsty  Pasty  Pasty  Pasty	100% modulus:	2.2 MPa
Colour:  Cure rate:  1.5 mm/24h  Density approx.:  1.53 g/cm³  Elasticity:  Good  Elongation of rupture:  250 %  Filling capacity:  Very good  Final bond strength:  Final bond strength after:  A hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  65  Initial Bonding after:  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Pasty  Pasty	Chemical base:	SMP Polymer
Cure rate:  Density approx.:  Elasticity:  Good  Elongation of rupture:  250 %  Filling capacity:  Very good  Final bond strength after:  A hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  Initial Bonding after:  Maximum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Pasty  Pasty	Chemicals resistance:	Good
Elasticity: Good  Elongation of rupture: 250 %  Filling capacity: Very good  Final bond strength: 350 N/cm²  Final bond strength after: 4 hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A): 65  Initial Bonding after: 30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance: 40 °C  Maximum temperature resistance: Good  Moisture resistance: Very good  Paintability: Good  Shear strength: 350 N/cm²  Skinover time: 5-10 minutes  Solid matter approx.: 100 %  Solvent free: Yes  Tensile strength (N/cm²) approx.:  UV resistance: Good  Viscosity: Pasty	Colour:	White
Elasticity: Good  Elongation of rupture: 250 %  Filling capacity: Very good  Final bond strength: 350 N/cm²  Final bond strength after: 4 hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A): 65  Initial Bonding after: 30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance: -40 °C  Maximum temperature resistance: Good  Moisture resistance: Very good  Paintability: Good  Shear strength: 350 N/cm²  Skinover time: 5-10 minutes  Solid matter approx.: 100 %  Solvent free: Yes  Tensile strength (N/cm²) approx.: UV resistance: Good  Viscosity: Pasty	Cure rate:	1.5 mm/24h
Elongation of rupture:  Filling capacity:  Very good  Final bond strength:  Final bond strength after:  A hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  Initial Bonding after:  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  Solid matter approx.:  Tonsile strength (N/cm²) approx.:  UV resistance:  Cyery good  Very good  Pasty  Cood  Very good  Sood  Solvent free:  Yes  Good  Very good  Good  Very good  Good  Very good  Good  Solvent free:  Yes  Good  Very good  Good  Cood  Co	Density approx.:	1.53 g/cm <sup>3</sup>
Filling capacity:  Final bond strength:  Final bond strength after:  A hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  Initial Bonding after:  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Moisture resistance:  Shear strength:  Solid matter approx.:  Tensile strength (N/cm²) approx.:  UV resistance:  Very good  Very good  Very good  Very good  Solvent free:  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Very good  Very good  Solvent free:  Good  Yes  Cood  Yes  Cood  Very good  Cood  Yes  Cood  Yes  Cood  Yes  Cood  Yes  Cood  Yes  Cood  Pasty	Elasticity:	Good
Final bond strength:  Final bond strength after:  Final bond strength after:  4 hours. This might vary, based on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  55  Initial Bonding after:  30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance:  Maximum temperature resistance:  Good  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Vasty  Pasty	Elongation of rupture:	250 %
Final bond strength after:  4 hours. This might vary, based on circumstances, like materials, temperature and humidity.  4 hours. This might vary, based on circumstances, like materials, temperature and humidity.  55  Initial Bonding after:  30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  40 °C	Filling capacity:	Very good
on circumstances, like materials, temperature and humidity.  Hardness (Shore A):  Initial Bonding after:  30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Good  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Vastore Good  Vastore Good  Very Good  Solvent free:  Good  Yes  Tensile strength (N/cm²) approx.:  Good  Viscosity:  Pasty	Final bond strength:	350 N/cm <sup>2</sup>
Initial Bonding after:  30 minutes. This might vary, based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Good  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Pasty	Final bond strength after:	on circumstances, like materials,
based on circumstances, like materials, temperature and humidity.  Minimum temperature resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  Skinover time:  Solid matter approx.:  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Based on circumstances, like materials, temperature and humidity.  -40 °C  Food  Solvent free:  Good  Very good  Solven²  5-10 minutes  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Pasty	Hardness (Shore A):	65
resistance:  Maximum temperature resistance:  Mildew resistance:  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Pasty	Initial Bonding after:	based on circumstances, like materials, temperature and
resistance:  Mildew resistance:  Good  Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Pasty		-40 °C
Moisture resistance:  Very good  Paintability:  Good  Shear strength:  350 N/cm²  Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Very good  250 N/cm²  5-10 minutes  250 N/cm²  250 N/cm²  4000  Pasty		100 °C
Paintability: Good  Shear strength: 350 N/cm²  Skinover time: 5-10 minutes  Solid matter approx.: 100 %  Solvent free: Yes  Tensile strength (N/cm²) approx.:  UV resistance: Good  Viscosity: Pasty	Mildew resistance:	Good
Shear strength: 350 N/cm²  Skinover time: 5-10 minutes  Solid matter approx.: 100 %  Solvent free: Yes  Tensile strength (N/cm²) approx.:  UV resistance: Good  Viscosity: Pasty	Moisture resistance:	Very good
Skinover time:  5-10 minutes  Solid matter approx.:  100 %  Solvent free:  Yes  Tensile strength (N/cm²) approx.:  UV resistance:  Good  Viscosity:  Pasty	Paintability:	Good
Solid matter approx.: 100 %  Solvent free: Yes  Tensile strength (N/cm²) approx.: 250 N/cm²  UV resistance: Good  Viscosity: Pasty	Shear strength:	350 N/cm <sup>2</sup>
Solvent free:  Tensile strength (N/cm²) 250 N/cm² approx.:  UV resistance:  Good Viscosity:  Pasty	Skinover time:	5-10 minutes
Tensile strength (N/cm²) 250 N/cm² approx.:  UV resistance: Good Viscosity: Pasty	Solid matter approx.:	100 %
approx.: UV resistance: Good Viscosity: Pasty	Solvent free:	Yes
Viscosity: Pasty		250 N/cm <sup>2</sup>
	UV resistance:	Good
Water resistance: Good	Viscosity:	Pasty
	Water resistance:	Good

### **STORAGE CONDITIONS**

At least 18 months after production.

Limited shelf life after opening.

Close container properly and store in a dry, cool and frostfreeplace.

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.