

# CONSTRUCTION PU ADHESIVE & SEALANT



**SEALANT FOR SEALING AND BONDING DIFFERENT MATERIALS (WINDOW FRAMES, ROOF COVERING, FLOOR PANELS, CONTAINERS AND ALU STRUCTURES) AND FOR SEALING DILATATION JOINTS IN CONSTRUCTION INDUSTRY.**

## PROPERTIES

- Excellent adhesion to most construction and metal materials - concrete, brick, wood, aluminium, iron, stainless steel, copper and various types of plastic.
- Good mechanical properties.
- Does not slump in vertical joints.
- Good hardness.
- May be painted.
- Does not cause corrosion.
- No staining.
- Very good resistance to various weather conditions.
- Good UV resistance.
- Colour: grey and white; others available on demand.

## TESTS AND CERTIFICATES

EN 15651-1,4

CE

## USE

- For gluing and sealing various construction materials.
- For sealing elastic joints and dilatation joints between different materials outside and inside, on the façade and on the floor.
- For gluing window frames, light construction materials, roof covering and floor panels.
- For sealing joints in vacuum systems, in networks of compressed air, containers, storage tankers, silos, aluminium constructions and sewage systems.

## TECHNICAL DATA

### Fresh sealant

Base		polyurethane
Appearance		paste
Curing mechanism		by air humidity
Specific gravity		1160 ± 20 kg/m <sup>3</sup>
Skin formation time	23 °C/50 % rel. humid.	≈ 50 min.
Hardening time	23 °C/50 % rel. humid.	2 mm/day
Application temperature		between +5 °C and +35 °C

### Cured sealant

Hardness Shore A	ISO 868	40 ± 5
Change in volume	ISO 10563	< 10 %

Tensile strength	ISO 8339	0.40-0.60 MPa
Module E 100 %	ISO 8339	< 0.40 MPa
Elongation at break	ISO 8339	300-400 %
Tensile strength:	ISO 37	1.05-1.25 MPa
Elongation at break	ISO 37	300-350 %
Temperature resistance		between -40 °C and +90 °C

## APPLICATION

Prior to use it is recommended to perform an adhesion test to verify adhesion of the sealant to the substrate.

### Surface preparation

The surface of the joint must be hard, clean, dust and fat free. Remove all separated and badly attached pieces.

### Joint and cartridge preparation

- If you want joints to look nice tape the edges with a masking tape.
- Pierce the cartridge at the top and screw on the nozzle, which has to be cut according to the width of the joint and placed in the gun. During work interruption release the handle on the gun and pull the piston back.
- The sealant should be applied as evenly as possible.
- At the end, use a smoothing tool - a TTK SEAL smoothing tool smoothing instrument, or a TTK SEAL smoothing agent soaped finger to level the sealant before the skin starts to form. It is very important to press the sealant well against the surface to be sealed.
- Use TTK CLEAN PROTECT tool cleaner to clean the tools and remove any residues of fresh sealant.

### Correct dimensioning of expansion joints

For optimal elasticity of a sealant the correct ratio width : depth is of extreme importance. The ratio is 2 : 1, 1 : 1 maximum. Sealant should not adhere to the bottom of the joint gap but only to its sides. This can be achieved with the use of TTK SEAL back filling tape. The minimum and maximum joint width is 6 mm and 20 mm, respectively.

Joint depth (mm)	Joint width (mm)						
	4	6	8	10	12	15	20
6		8.3	6.2	4.9	4.2		
8			4.6	3.7	3.1	2.5	
10				3.0	2.5	1.9	1.5
12					2.0	1.6	1.3
15						1.3	1.0
20							0.7

The table shows how many linear metres of joints we can seal with one 300 ml cartridge relative to the width and depth of the joint.

## PACKAGING

- 300 ml ALU cartridge.
- 600 ml sausage.

## STORAGE

Cartridges and sausages for 15 and 18 months, respectively in a dry space at temperature range between +5°C and +25°C, in originally closed packaging.

## HEALTH, SAFETY HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TTK distributor for a copy.

**WARNING**

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.



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