



# TEKAFLEX



## PU 40 FOR USE IN CONSTRUCTION



TEKAFLEX PU 40 for use in construction is a one-component polyurethane sealant for sealing dilatation joints in construction and for gluing construction and metal materials.

### PROPERTIES

- Excellent adhesion on most construction material - concrete, brick, wood, aluminum, iron, stainless steel, copper and various plastics
- Good characteristics
- Quick-drying
- Does not slump in vertical joint gaps
- It can be painted
- Great hardness
- Not corrosive
- Resistant to all weather conditions
- UV resistant
- Colour: grey, white, others on demand

### USE

- Dilatation joints in construction
- Sealing and gluing metal and construction materials
- For gluing window frames, light construction materials, roofing tiles, floor panels. For sealing joints in vacuum systems, in networks of compressed air, containers, silos, aluminum constructions, sewage systems

### TECHNICAL DATA

#### Uncured sealant

Basis		polyurethane
Form		paste
Curing mechanism		moisture curing
Specific gravity		1320 ± 20 kg/m <sup>3</sup>
Skin formation time	23°C/50% rel. humid	50 min
Hardening time	23°C/50% rel. humid	2 - 3 mm/day
Application temperature		+5°C to +35°C

#### Hardened sealant

Hardness Shore A	ISO 868	40 ± 5
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 rod 1	1,05 - 1,25 MPa
Elongation at break	ISO 37 rod 1	300 - 350%
Change in volume	ISO 10563	< 10%
Temperature resistance		-40°C to +80°C

## APPLICATION

### 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:

- For better adhesion onto porous surfaces use Primer PU-10.
- If you want joints to look nice tape the edges with masking tape.
- Cut 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, level the sealant with an appropriate instrument or a well soaped finger.
- Remove the masking tape before the sealant starts to harden.
- Fresh sealant and tools can be cleaned with alcohol.

### Correct dimensioning of dilatating joints:

For the optimal elastic characteristics of the sealant, a correct width/depth ratio is important (2:1) or a maximum of 1:1. The sealant must not grip the bottom of the joint, but only its sides. We can achieve this with the use of underlying materials, onto which the sealant has no adhesion (foamed polyethylene, polyurethane). The minimum joint width is 6 mm, the maximum 20 mm.

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8,6	6,4	5,1	4,3		
8		4,8	3,8	3,2	2,6	
10			3,1	2,6	2,0	1,5
12				2,1	1,7	1,3
15					1,3	1,0
20						0,76

The table shows how many linear metres of joints we can seal with one 310 ml cartridge relative to the width and depth of the joint.

## PACKING

- 310 ml A1 cartridges ( A carton of 20 pieces)
- 600 ml sausage

## STORAGE

9 months in a dry and cool storage place at temperatures between + 5 °C and + 25 °C and kept in the originally sealed package.

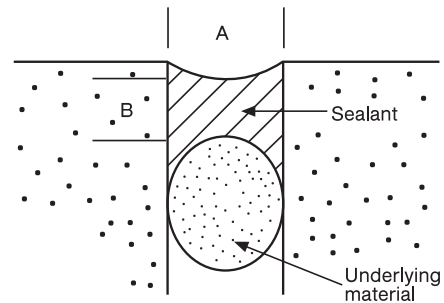
## SAFETY PRECAUTIONS

Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use only in well-ventilated areas.

## ATTENTION

The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experiences. Properties quoted are intended, as a guide and do not therefore constitute a specification. You should thoroughly test any application to be sure that product corresponds to the required performances.

Correctly dimensioned joint  
 A:B = 2:1  
 Dimension A,B min 6 mm



Correctly executed angled joint  
 Dimension A,B min 6 mm

