

# ELASTIC

## HIGHLY ELASTIC HYBRID POLYMER ADHESIVE AND SEALANT SUITABLE FOR SEALING A WIDE RANGE OF MATERIALS

Professional elastic adhesive and sealant based on innovative POWER-BOOST technology, providing strong adhesion, excellent durability, maintaining flexibility even under demanding conditions, and offering superior resistance to mould.

### PROPERTIES

- Excellent adhesion to most construction and metal materials - concrete, brick, wood, aluminium, iron, stainless steel, copper and various types of plastic.
- Good output even at low temperatures.
- Does not slump in vertical joints.
- Good adhesion on moist surfaces.
- Excellent mechanical properties and hardness.
- Environmentally friendly; it is solvent, isocyanate and silicone free.
- Totally chemically neutral and odourless.
- Can be painted with most paints and varnishes on the basis of epoxy, polyurethane and water.
- Shrinkage during hardening process below 1 %.
- Resistant to atmospheric effects, UV-light and ageing.
- Does not cause corrosion.
- Chemical resistance:
  - Good chemical resistance to: water, aliphatic solvents, mineral oils, fat, low concentration inorganic acids and bases;
  - Poor chemical resistance to: aromatic solvents, concentrated acids, chlorinated hydrocarbons.
- Colour: white.



### TESTS AND CERTIFICATES

EN 15651-1,3,4	CE
ISO 846	fungicide test
EN 1186, EN 13130 in CEN/TS 14234	test for usage in food industry
EMICODE EC 1+	emissions test
Class A+	emissions test

### AREA OF USE

- Bonding window sills and slats.
- Mounting and sealing various kitchen elements.
- Sealing joints in silos, storage tanks, containers, vacuum systems, and compressed air networks.
- Bonding boards and roof coverings.
- Elastic bonding of structures subject to vibrations.

- Sealing and repairing joints in areas prone to mould formation.
- Sealing and bonding different materials in the automotive and shipbuilding industries.
- Fixing styrofoam, ceramic tiles, switches, and sockets on various substrates.

## TEHNICAL DATA

### Fresh adhesive

Base:	hybrid MS-polymer
Appearance:	paste
Curing mechanism:	with air humidity
Specific weight:	1500 ± 40 kg/m <sup>3</sup>
Skin formation time:	23 °C/50 % rel. humid.
Curing time:	20 ± 5 min.
Application temperature:	2-3 mm/day from +5 °C to +30 °C

### Cured adhesive

Hardness Shore A:	ISO 868	40-50
Volume change:	ISO 10563	< 1,5 %
Tensile strength:	ISO 8339	1,1-1,5 MPa
Module E 100 %:	ISO 8339	> 0,9 MPa
Elongation at break:	ISO 8339	200-300 %
Tensile strength:	ISO 37	2-2,5 MPa
Elongation at break:	ISO 37	300-400 %
Temperature resistance:		from -40 °C to +90 °C

## INSTRUCTION FOR USE

- Apply the adhesive directly from the cartridge.
- The surfaces to be bonded must be solid, clean, non-greasy and dust-free.
- The surfaces to be bonded may be slightly wet.
- For good adhesion onto porous materials use TKK SEAL silicone & hybrid primer.

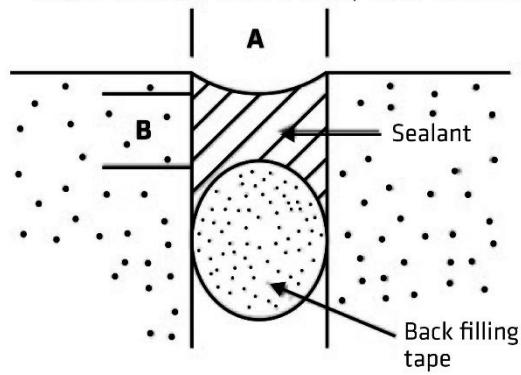
### Adhesive bonding procedure:

- Apply the adhesive in a line [air humidity access must be provided].
- The object to be bonded is placed in the desired place at the latest 15 min from the application of adhesive.
- When bonding heavier objects, use an additional attachment until the adhesive hardens (2-3 mm/day at 23 °C; 50 % relative humidity).

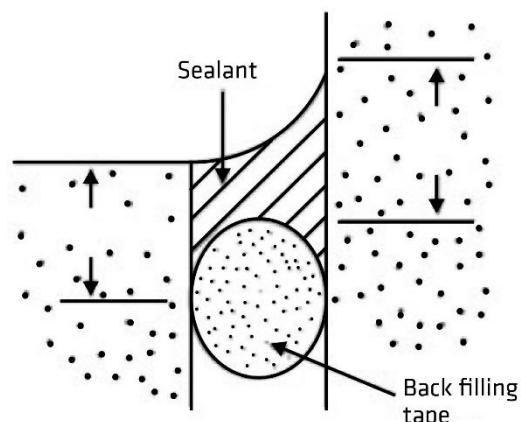
### Sealing procedure:

- Before starting the sealing, protect the outer edges of the joint with a protective self-adhesive tape.
- 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 TKK SEAL Back filling tape. The minimum and maximum joint width is 6 mm and 20 mm, respectively.
- Joint is dimensioned according to the scheme below:

Correctly dimensioned joint  
 A:B = 2:1 (MAX 1:1)  
 A dimension: min 6 mm; max 20 mm



Correctly executed angled joint



- At the end, use a TKK SEAL smoothing tool – a smoothing instrument, or a TKK 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.
- Remove the masking tape before the sealant starts to harden.
- Fresh sealant and tools can be cleaned with the TKK CLEAN PROTECT tool cleaner, hardened sealant should be removed mechanically first and then with a cleaner for hardened silicone – TKK CLEAN PROTECT silicone remover or TKK CLEAN PROTECT universal cleaner.

#### PACKAGING

- 290 ml cartridge.

#### STORAGE

- 15 months in dry and cool places at a temperature between 5 °C and 25 °C in the original sealed packaging.

#### HEALTH, SAFETY, HANDLING AND DISPOSAL INFORMATION

Additional safety information, safe handling instructions, information on personal protective equipment, and disposal information can be found in the safety data sheet. The safety data sheet is available on request. You can also obtain a copy from your TKK sales representative.

#### WARNING

The instructions are based on our tests and practical experience. However, due to specific conditions and working methods we recommend preliminary tests for each application.



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