

# BOND & SEAL

## ELASTIC ADHESIVE AND SEALANT FOR ALL MATERIALS

Professional elastic adhesive and sealant based on the basis of the innovative POWER-BOOST technology with a remarkably wide specter of adhesion to various materials and with mould resistance. Makes a permanently elastic and strong joint, resistant to vibrations and shocks.



### PROPERTIES

- Elastic adhesive and sealant for all materials, mould resistant.
- For indoor and outdoor use.
- Excellent adhesion to most building materials without primer: concrete, brick, marble, plaster, ceramics, wood, aluminum, iron, sheet metal, brass, glass, plexiglass, polycarbonate, XPS, EPS, PVC, ABS, polyester, cork... [not suitable for PE, PP, PTFE].
- Good extrudability even at low temperatures.
- Does not slump in vertical joints.
- Good adhesion to wet surfaces, except wood.
- Excellent mechanical properties and high hardness.
- Achieves waterproof and airtight joint.
- Vibration tolerant.
- Environmentally friendly; solvents, isocyanate and silicones free.
- Chemically neutral adhesive, does not damage the surface.
- It does not cause corrosion, it is anti-corrosion protection.
- Odourless.
- Can be painted, solvent-based coatings are not recommended.
- No volume change during curing, no shrinkage.
- Resistant to weathering, UV light and aging.
- Chemical resistance:
  - good: water, aliphatic solvents, mineral oils, fats, dilute inorganic acids and bases;
  - poor resistance or no resistance to: aromatic solvents, concentrated acids, and chlorinated hydrocarbons.
- Colour: white.

### TESTS AND CERTIFICATES

EN 15651-1:2012 F-EXT-INT-CC	CE mark
EN 15651-3:2012 S	CE mark
EN 15651-4:2012 PW-INT	CE mark
EMICODE EC 1 PLUS	emissions

### AREA OF USE

- Bonding and sealing of various materials in the automotive industry, shipbuilding, construction.
- Efficient solution for various household bonding and sealing.
- For fixing styrofoam, ceramic tiles, switches, sockets on different substrates.

- For elastic bonding of parts of structures subject to vibration.
- Sealing and remediation of areas prone to mould.
- Bonding of panels and roof coverings.
- Sealing joints in silos, tanks, containers, vacuum systems, and compressed air networks.
- Bonding window sills and slats.

## TEHNICAL DATA

### Fresh adhesive

Base:	hybrid MS-polymer
Appearance:	paste
Curing mechanism:	with air humidity
Specific weight:	1520 ± 40 kg/m <sup>3</sup>
Skin formation time:	23 °C/50 % rel. humid.
Curing time:	20 ± 5 min.
Application temperature:	23 °C/50 % rel. humid. 2-3 mm/day from +5 °C to +30 °C

### Cured adhesive

Hardness Shore A:	ISO 868	50-55
Volume change:	ISO 10563	< 1,5 %
Tensile strength:	ISO 37	2-2,7 MPa
Elongation at break:	ISO 37	200-300 %
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.
- To improve adhesion to certain surfaces, apply an appropriate primer.

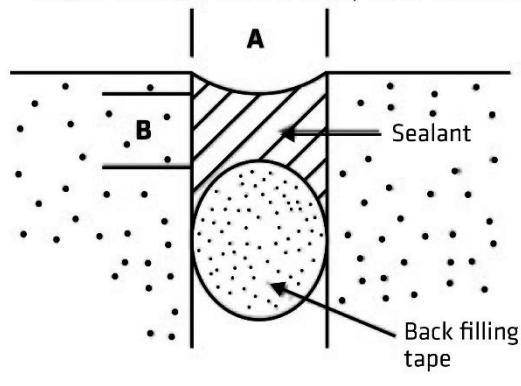
### Adhesive bonding procedure:

- 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].

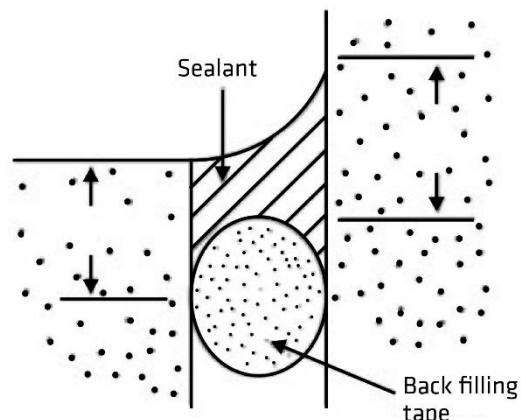
### Sealing procedure:

- Before starting the sealing, protect the outer edges of the joint with a protective self-adhesive tape.
- To achieve optimum elastic properties of the sealant, it is important to have a right width to depth ratio of 2 : 1, maximum 1 : 1. The sealant must not have adhesion to the bottom of the joint, but only on its sides. This is achieved by using Tekatrak Back filling tape inert backing materials. The minimum width of the joint is 6 mm, the maximum 20 mm.
- 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



- Smooth the sealant with the Smoothing Kit or with a finger dipped in the Smoothing Agent, before it makes a skin. It is very important to press the sealant well on the surface to be sealed.
- After smoothing and before the formation of the skin (< 15 min at 23 °C; 50 % rel. hum.) remove the protective self-adhesive tape.
- Uncured adhesive can be cleaned with alcohol hardened adhesive can only be removed mechanically.

#### **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.

**TKK**

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