

TEKASIL CLEANROOM

PROPERTIES

- Tested for use in food processing industry.
- Almost without odour.
- Excellent adhesion to most materials without primer application.
- For good adhesion onto porous materials use Primer KVZ 12.
- Excellent mechanical properties.
- Movement accommodation up to 20%.
- Resistant to atmospheric effects, UV-light and ageing.
- Resistant to various chemicals.
- Does not cause corrosion.
- Excellent for sealing joints in places which require a high level of hygiene, e.g. hospitals, cold storages, kitchens, laboratories and pharmaceutical industry.
- It is also suitable for use in the food processing industry, although direct contact with foodstuffs is should be avoided.
- Sealing joints between different materials: glass, wood, concrete, brick, stone, ceramics, steel, aluminium, most types of plastic.

TESTS AND CERTIFICATES

EN 15651-1:2012 F-EXT-INT-CC – CE marking,
 EN 15651-2:2012 G-CC – CE marking,
 EN 15651-4:2012 PW-INT – CE marking,
 ISO 11600 – sealants classification and requirements,
 GEV-EMICODE EC-1 PLUS (very low emission),
 FOODCONTACT – EN 1186, EN 13130 and CEN/TS 14234 – food contact materials.

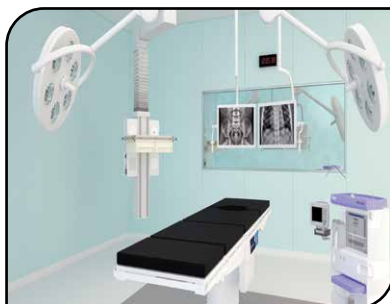
USE

For sealing joints in places, which require a high level of hygiene (hospitals, kitchens, food processing facilities, cold storages, etc.), for use in food processing industry and sealing of ventilation systems.

TECHNICAL DATA

Fresh sealant

Basis		neutral alkoxy silicone
Appearance		paste
Curing mechanism		by air humidity
Specific gravity		1020 kg/m ³ ±10 kg/m ³
Skin formation time	23°C/50% rel. hum.	8 min.
Hardening time	23°C/50% rel. hum.	2 mm/day
Resistance to flow	ISO 7390	0 mm
Application temperature		between +5°C and +40°C



Tekasil Cleanroom

Neutral sealant with permanent elasticity and excellent adhesion to most construction materials (concrete, brick, wood, steel, aluminium, different types of plastic (PVC, ABS, polycarbonate), foam concrete, ceramics, plasterboards, glass, klinker, metal, porcelain, Styrofoam, enamel etc.).



For premises with high hygienic requirements



PVC



Food safe

Cured sealant

Hardness Shore A	ISO 868	15–25
Tensile strength	ISO 8339	0,6–0,7 MPa
Module E 100%	ISO 8339	<0,4 MPa
Elongation at break	ISO 8339	250–350%
Tensile strength	ISO 37	>1,10 MPa
Elongation at break	ISO 37	>350%
Change in volume	ISO 10563	<10%
Elastic recovery	ISO 7389	>90%
Temperature resistance		between -40°C and +180°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 dry, hard, clean, dust and fat free.

Remove all separated and badly attached pieces.

Joint and cartridge preparation:

- For good adhesion onto porous materials use Primer KVZ 12 (see technical data sheet Primers).
- If you want joints to look nice tape the edges with a 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, use a smoothing tool - a TKK smoothing instrument, or a 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 Tekafin cleaner, hardened sealant should be removed mechanically first and then with a cleaner for hardened silicone - Tekapursil S or Apursil.

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8,3	6,2	5	4,2		
8		4,7	3,7	3,1	2,5	
10			3,0	2,5	2,0	1,5
12				2,1	1,7	1,2
15					1,3	1,0
20						0,75

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

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 Tekatrak Back filling tape. The minimum and maximum joint width is 6mm and 20mm, respectively.

PACKAGING

- 300ml cartridge
- 200l drum
- 600ml sausage
- other packagings are available by agreement

STORAGE

12 months in a dry and cold place under 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 TKK 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.