TKK
SEAL

ALL PURPOSE SILICONE EXTRA

SEALANT WITH PERMANENT ELASTICITY AND EXCELLENT ADHESION TO ALL CONSTRUCTION MATERIALS (CONCRETE, BRICK, WOOD, STEEL, ALUMINIUM, DIFFERENT TYPES OF PLASTIC, FOAM CONCRETE, CERAMICS, PLASTERBOARDS, GLASS, KLINKER, METAL, PORCELAIN, STYROFOAM, ENAMEL ETC.).

PROPERTIES

- Does not slump in vertical joints.
- It prevents mould to form on silicone due to special admixture.
- Excellent adhesion to most construction material without primer application.
- For good adhesion onto porous materials use TKK SEAL silicone & hybrid primer.
- Excellent mechanical properties.
- Movement accommodation up to 25 %.
- Resistant to atmospheric effects, UV-light and ageing.
- Resistant to various chemicals.
- Does not cause corrosion.
- Wide selection of colours (see colour chart).

TESTS AND CERTIFICATES

EN 15651-1,2,3,4	CE
ISO 846	fungicide test
EMICODE EC1+	emissions test
Class A+	emissions test

USE

- The product is recommended for sealing joints in rooms where mould can form (bathrooms, basements).
- Due to its excellent adhesion the products is suitable for sealing and gluing of various construction materials (concrete, brick, wood, steel, aluminium, different types of plastic, foam concrete, ceramics, plasterboards, glass, klinker, metal, porcelain, Styrofoam and enamel).
- It can also be used for glazing, installing glass into wooden, aluminium and PVC frames, for skylight mounting, sealing of expansions joints on façades and floors, for final joints between window frames, sills and walls, frames of window blinds, for gluing window sills and slats, and for sealing joints in storage tanks and containers.
- The product is suitable also for elastic sealing and gluing in power generation industry, machinery, vehicles and in shipbuilding.

TECHNICAL DATA

Fresh sealant

Basis	neutral oxime silicone

Appearance		paste
Curing mechanism		by air humidity
Specific gravity		1010 ± 20 kg/m^3 (transp.), 1310 ± 20 kg/m^3 (coloured)
Skin formation time	23 °C/50 % rel. humid.	7 min.
Hardening time	23 °C/50 % rel. humid.	2 mm/day
Resistance to flow	ISO 7390	0 mm
Application temperature		between +5 °C and +40 °C

Cured sealant

Hardness Shore A	ISO 868	15-25
Tensile strength	ISO 833	0.5-0.8 MPa
Module E 100 %	ISO 8339	< 0.4 MPa
Elongation at break	ISO 8339	200-300 %
Tensile strength	ISO 37	> 1.20 MPa
Elongation at break	ISO 37	300-400 %
Change in volume	ISO 10563	< 10 %
Elastic recovery	ISO 7389	98 %
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 TKK SEAL silicone & hybrid primer.
- 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 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.
- Admixture against mould formation washes away with water. Anti-mould effect can be extended by drying the joints and aerate the room well.
- 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.

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

Joint depth (mm)	Joint width (mm)						
	4	6	8	10	12	15	20
4							
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	1.3
15						1.3	1
20							0.75

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 cartridge.
- 60 ml tube.
- 200 l drum.
- 600 ml, 400 ml, 300 ml sausage.
- Other packagings are available by agreement.

STORAGE

18 months in a dry and cold place under 25°C in originally closed packaging, sausages 24 months.

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.

TKK d. o. o. · Srpenica 1, 5224 Srpenica, Slovenia
+386 (0) 5 38 41 300 | info@tkk-group.com | www.tkk-group.com