TEKASIL
FIRESTOP

PROPERTIES

- Due to excellent adaptation characteristics this is an ideal product for joints where despite the impact of fire no loss of adhesion should occur.
- For sealing and gluing of joints between various materials (glass, wood, concrete, brick, stone, ceramics, steel, aluminium and most types of plastic) where there is a danger of fire:
  – Joints around fire door,
  – Wall penetrations for cables or pipes,
  – Expansion joints.
- Does not cause corrosion.
- Excellent adhesion to most construction material without primer application.
- Adhesion onto porous surfaces can be improved with the use of TKK primer.
- Good mechanical properties.
- Does not slump in vertical joints.
- Movement accommodation up to 20%.
- Resistant to atmospheric effects, UV-light and ageing.
- Maintains elastic properties from -40°C to +180°C, and in the event of occasional exposure also up to 200°C.
- Application temperature: between +5°C and +40°C.
- Resistant to various chemicals.
- Colour: white, other colours on demand.

TESTS AND CERTIFICATES

EN 15651-1:2012 F-EXT-INT – CE marking,
EN 15651-2:2012 G-CC – CE marking,
EN 15651-4:2012 PW-INT – CE marking,
EN 13501-1 Fire Classification of Construction Products and Building elements ,
EN 13501-2+A1: EI 240 V-X-F-W 10 to 20.

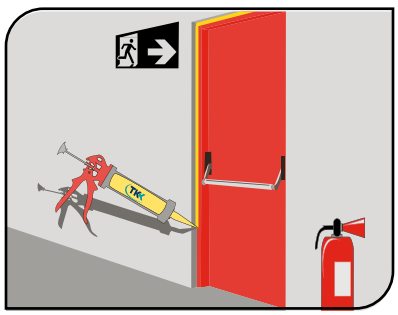
USE

For sealing joints where fire resistant sealant is required. For sealing around fire door, for sealing around wall/floor penetrations for cables and pipes, for door and window installation, for sealing between plasterboards and concrete elements. Excellent mechanical properties once cured.

TECHNICAL DATA

Fresh sealant

Basis		neutral oxime silicone
Appearance		paste
Curing mechanism		by air humidity
Specific gravity		1290±10 kg/m³
Skin formation time	23°C/50% rel. humid.	7 min.



Tekasil Firestop

Neutral sealant with permanent elasticity and excellent adhesion to most construction materials (concrete, brick, wood, steel, aluminium, certain types of plastic - PVC, foam concrete, ceramics, plasterboards, glass, klinker, metal, porcelain, Styrofoam and enamel) for use in applications where fire resistant sealant is required. It prevents fire, smoke and gas to spread.

Prevents spreading of fire

For interior and exterior use

Good workability at high and low temperatures

Hardening time	23°C/50% rel. humid.	2 mm/day
Resistance to flow	ISO 7390	0 mm

Cured sealant

Hardness Shore A	ISO 868	30–40
Tensile strength	ISO 8339	0,7–0,8 MPa
Module E 100%	ISO 8339	>0,4 MPa
Elongation at break	ISO 8339	150–250%
Tensile strength	ISO 37	>1,4 MPa
Elongation at break	ISO 37	250–350%
Change in volume	ISO 10563	<10%
Elastic recovery	ISO 7389	>90%

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:

- 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.
- 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 or non-flammable materials (fibreglass wool and ceramic fibres). The minimum and maximum joint width is 6mm and 20mm, respectively.

Joint depth (mm)	Joint width (mm)					
	6	10	15	20	25	30
6	8,3					
8		3,7				
10		3,0	2,0	1,5		
12			1,7	1,25	1,0	
15			1,3	1,0	0,8	0,75
20				0,75	0,6	0,5
25						0,4

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.

PACKAGING

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

STORAGE

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

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