

TKK



TEKASIL

Firestop

Tekasil Firestop is a neutral one-component silicone sealant suitable for sealing joints, which prevents the spreading of fire, smoke, poisonous gases and water in the event of fire.

PROPERTIES

- Excellent fire resistance.
- Does not cause corrosion.
- Excellent adhesion to most building materials without primers.
- Good mechanical characteristics.
- Does not slump in vertical joints.
- Movement accommodation up to 25%.
- Resistant to different weather conditions, rain, snow, extreme temperatures.
- Maintains elastic properties from -40°C to $+180^{\circ}\text{C}$ and in the event of occasional exposure also up to 200°C .
- Applied at the temperature of $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$.
- Resistant to chemicals.
- UV resistant.
- Colour: white, other colours on demand.

USE

- Due to excellent adaptation characteristics this is an ideal product for joints where despite the impact of fire the loss of adhesion must not occur.
- For sealing joints between various materials (glass, wood, concrete, brick, stone, ceramics, steel, aluminum, most plastics) where there is danger of fire:
 - joints around fire doors;
 - wall penetrations for cables or pipes;
 - dilatation joints.

TECHNICAL DATA

Uncured sealant

Curing mechanism		air moisture curing
Form		paste
Specific gravity		$1290 \pm 10 \text{ kg/m}^3$
Skin formation time	23°C , 50 % RH	5 – 10 min
Hardening time	23°C , 50 % RH	2 mm/day
Resistance to flow	SIST EN 27390	0 mm

Hardened sealant

Hardness Shore A	ISO 868	20 – 30
Tensile strength	SIST EN 28339	(0.8 – 1.0) MPa
Module E 100 %	SIST EN 28339	(0.5 – 0.8) > MPa
Elongation at break	SIST EN 28339	(150 – 250) %
Tensile strength	ISO 37 rod 1	> 2.0 MPa
Elongation at break	ISO 37 rod 1	200 – 300 %
Change in volume	SIST ISO 10563	< 10 %
Elastic recovery	SIST EN 27389	98 %

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APPLICATION

Surface preparation:

The surface of the joint must be hard, clean, dust and fat free. Remove all separated and badly attached pieces.

Joint and cartridge preparation:

- The minimum joint dimension is 6 x 6 mm while the maximum one is 30 x 25 mm (width x depth). Foamed polyethylene or non-combustible materials (glass wool, ceramic fibres) may be used as base materials for correct dimensioning.
- If you want joints to look nice tape the edges with 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, level the sealant with an appropriate instrument or a well soaped finger. It is very important that the sealant is firmly pressed on the surface which is being 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.

How many metres of the joint can be sealed with one 300 ml cartridge?

Joint depth (mm)	Joint width (mm)					
	6	10	15	20	25	30
6	8.3					
8		3.7				
10		3.0	2	1.5		
12			1.7	1.25	1.0	
15			1.3	1.0	0.8	0.7
20				0.75	0.6	0.5
25						0.4

PACKAGING

- 300 ml cartridges (a carton of 20 pieces)
 - 200 l barrels
- Other ways of packaging (e.g. for industry) are available on demand.

STORAGE

12 months in a dry, cool place under 25°C, in the originally sealed package; sausages 18 months.

After the expiry date on the packaging the product may still be usable but this must be confirmed by quality control.

SAFETY PRECAUTIONS

Keep out of the reach of children. Wear suitable protective clothing and gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use only in well-ventilated areas.

WARNING

The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experiences. Properties quoted are intended, as a guide and do not therefore constitute a specification. You should thoroughly test any application to be sure that product corresponds to the required performances.

STANDARDS

TEKASIL FIRESTOP meets the following standards:

DIN EN 13501 - 1, CLASS E

tested at Materialprüfanstalt (MPA) für das Bauwesen, D-38106 Braunschweig, Nr. des Klassifizierungsberichtes K-3047/8536-MPA BS.