

# Sikaflex® -TS plus

Elastic, 1-component sealant  
with a polyurethane base

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Product description:	<p>Sikaflex-TS plus is a 1-component sealant specially for sealing steel containers built in sections. Sikaflex-TS plus reacts with air humidity to form a flexible sealant.</p> <p>Sikaflex-TS plus is resistant to liquid manure and suitable for sealing sewage systems.</p>
Fields of application:	<p>For sealing overlapping steel segments and threaded joints of steel containers.</p> <p>For corrosion protection at the edges of enamelled steel panels, for sealing storage containers against water and liquid manure.</p> <p><u>Limitations:</u> The functioning of the sealant depends on the construction of the container, the care with which the sealing work is carried out and cleaning of the adhesive surfaces and cannot therefore be guaranteed by the sealant manufacturer.</p> <p>For the sealant to be chemically resistant, it must first have been fully cured. Of decisive importance are the chemicals, their concentration, the mixture of different substances and the temperature of the stored medium. Resistance, therefore, can only be estimated with reference to the list of chemicals.</p> <p>Corrosion protection is dependent on the thickness of the sealant layer. Sikaflex-TS plus only provides effective protection with a layer thickness of more than 8 mm in conjunction with the required bonding agent (primer).</p> <p>Sikaflex-TS plus must not be used in drinking-water systems and in swimming pools.</p>
Properties:	<ul style="list-style-type: none"><li>● Resistant to sewage, liquid manure and numerous chemicals</li><li>● High propagation strength</li><li>● Movement capacity: 15%</li></ul>
Packaging:	Sausages 600 ml (1 carton = 20 sausages)
Colours:	<p>Concrete grey, dark brown, black, dark green</p> <p>The colours can be affected by environmental influences (chemicals, high temperature, UV radiation)</p>
Shelf life:	In original containers, in cool and dry environment at temperatures between +10° C and +25° C: 9 months. Protect against direct sun radiation.

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Technical data:

Characteristic values		Remarks
Chemical basis:	Polyurethane, 1-component, moisture curing	
Specific gravity:	approx. 1,23 g/ml	DIN 53 479 B
Sag resistance:	excellent	DIN EN 27 390-St-U 16
Final curing: Skinning time:	approx. 2,5 mm / 24 hours approx. 5 hours	normal atmosphere acc. to DIN 50 014-23/50-2
Reduction of volume:	approx. -6%	DIN 52 451
Application temperature:	+5° C to +40° C	
Temperature resistance:	-40° C to +70° C	
Tensile strength at 100% elongation:	1,10 N/mm <sup>2</sup>	DIN EN 28 340-NWT-1-A 1
Movement capacity:	15%	
Shore hardness A:	approx. 45	Following DIN 53 505, after pre-storage acc. to DIN 52 455-2
Propagation strength:	≥ 8 N/mm <sup>2</sup>	

**Chemical resistance:** Resistant to: water, seawater, liquid manure, diluted lyes, neutral water, dispersed detergents and household sewage.  
Not resistant to: alcohol, organic acids, concentrated lyes and acids, chlorinated and aromatic hydro-carbons.

**Processing:** For the construction, the relevant regulations are applicable, e.g. DIN 11622 including annex 1.  
The sealant must be taken into account in the construction of the container. Extra special care must be taken with the foot points because this is where movement of the container segments can occur. Due to the large contact surfaces with the stored medium, the sealant must be resistant to it over a long period of time. Pressure sealants should only be subjected to stress after curing of the sealant so that the adhesion of the sealant cannot be impaired.

**Preparation:** The substrate must be firm, clean and dry and free from oil and grease. Any loose particles are to be removed.  
The compatibility of the sealant with paints, lacquers and anti-corrosion coatings is to be tested in each individual case (for evaluation, see. DIN 52 452-4).

**Primer:** Thorough cleaning is a prerequisite for secure adhesion even when additional bonding agents (primers) are used. Grease-dissolving agents are necessary for cleaning metals, e.g. Reinigungsmittel 5.  
Sika-Haftreiniger 1: Bonding agent for pressure sealants on stainless steel sheets and, in general, for enamelled steel.  
Sika-Primer 3: Bonding agent for concrete.  
Sika-Primer 35: Bonding agent for plastics and stainless steel. In each individual case, select coatings after carrying out a suitability test.

**After-treatment:** Sikaflex-TS plus does not require any after-treatment. The surface can be smoothed with Sika-Abglättmittel N.  
Joints must not be painted over.

**Backfilling:** Backfill joints with Sika-Rundschnur-PE.  
Backfilling is only necessary in the connecting joints between floor and wall.

Precautionary measures:

Sikaflex-TS plus contains isocyanate. Observe directions given on label.

Keep cartridges and bags air-tight in dry rooms.

In a not fully cured state, the product contaminates water and should not be allowed to get into drains, water or the ground.

First aid:

Eye contact: rinse with plenty of water (approx. 10 to 15 min.) and consult a doctor.

In case of skin contact: rinse with plenty of water and soap. Use barrier cream.

Further details are contained in our instructions "Health protection and prevention of accidents".

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"The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied upon request."

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