Wikosil®-DS

Soft-elastic special silicone sealant for overlay strips, sheet metal, etc.

Application areas

- specially designed for connections between sheet metal and masonry (overlay strips)
- for applications with temperature-related high elongation, compression and shear load
- often used where it is difficult to realise correctly dimensioned connections
- furthermore for sealing and caulking joints as well as for transitions on glass, concrete, artificial stones, ceramics, treated wood, zink, aluminium, non-ferrous metal, PVC-hard etc.
- ideal for plumbings in building, building construction, apparatus construction and industry

Product benefits

- particularly suitable for high shear stress
- good performance at low temperatures
- neutral cross-linking
- especially soft elastic
- no risk of corrosion
- good adhesion to most sheet metal and most metals used in construction like aluminium, steel sheet, steel, galvanized steel, chrome nickel steel, copper, non-ferrous metals etc.
- good adhesion to masonry, concrete, facade elements, treated wood, glass, the glazed ceramic, as well as many plastics
- good UV, weather and ageing resistance
- almost odourless
- solvent-free (VOC-free)
- for indoor and outdoor use
- practically shrinkage-free
- hardly any surface soiling

Base

Ready-to-use, 1C silicone sealant; after extrusion, the product vulcanises under the influence of humidity, forming a silicone rubber that remains elastic, therefore allow silicone to evaporate unhindered.

Restrictions

Not suitable for oil and bitumen-containing substrates, waxy substrates, PE, PP, Teflon®.
Not recommended for natural stone, mirror backsides, pools, aquarium construction. Our range of products offers you a choice.

Processing

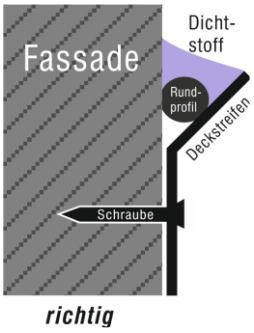
The bonding surfaces must be sound, dry and free of dust and grease.

Pre-coat absorbent and porous substrates with Wi-Primer V-07.
Use Wi-Primer V-01 as a solvent-free alternative.
Clean non-absorbent surfaces with Wisatyp TL 16.

Check treated and non-absorbent surfaces with an adhesion test.

In most cases, adhesion can be improved with Wi-Primer V-03 or Wi-Primer V-23.

Correct joint dimensioning



Cross-section of a correctly calculated joint with double-flange gluing on the façade and the overlay strip.
The sealant does not adhere to the closed-cell PE round profile.

The dimensions (especially length) of the cover tape must not exceed the maximum overall moulding of the sealant in terms of thermal expansion.

coefficients of linear expansion at a temperature difference of 100 °C (winter -20 °C and summer +80 °C) in mm **per linear metre**:

Aluminium	ca.	2.4 mm
Copper	ca.	1.7 mm
chrome nickel steel	ca.	1.1 - 1.7 mm

Note

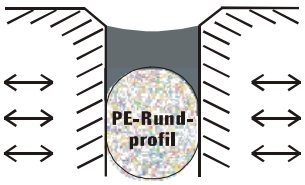
See doc. Technical information on the masking tape «problematique», available on www.wisabax.ch.

Follow the rules for joint dimensioning.
Minimum joint width: 4 mm, minimum joint depth: 4 mm
Maximum joint width: 25 mm, maximum joint depth: 12 mm

	Joint width							
Joint depth	4 mm	5 mm	6-7 mm	8-10 mm	12 mm	15 mm	20 mm	25 mm
4 mm								
5 mm								
6 mm								
7 mm								
8 mm								
10 mm								
12 mm								

Optimum dimensions for moving joints
Limit dimension for slightly moving joints
Dimension for **non-stressed joints**

Before sealing, the joints must be pre-filled by pressing in a resistant, non-absorbent, preferably convex backfill material so that there is an enlarged adhesive surface on the joint flanks. For this purpose we recommend PE round profiles from our product range, available with diameters from 4.5 mm.



We recommend masking the edges of the joint with masking tape to ensure a clean and straight joint.

The sealant must be sprayed in such a way that sufficient pressure is exerted on the joint flanks. In particular, make sure that no air bubbles are trapped in the joint sealing compound.

	Smooth the pressed-in sealant with a suitable joint spatula before skin formation. For smoothing joints, our smoothing compound Wikofix GM 52 has proved its worth in practice. We accept no liability for damage caused by the use of commercially available detergents. The masking tape must be removed immediately after application.
Properties	especially soft elastic, neutral cross-linking
Density	ca. 1.03 g/cm³
Consistency	pasty, firm
Skin formation	ca. 5 - 10 min under normal conditions (+23 °C, 55 % rel. humidity)
Subsidence	Mounted in a U-profile of L x W x H = 150 x 21 x 15 mm no tendency to sink.
Volume shrinkage	<3 % by volume
Max. total deformation	40 % for standardised joints, i.e. min. 25 % elongation and up to 15 % compression
Setting time	ca. 2 - 3 mm on the first day, then decreasing in depth
Recoatability	limited colour compatible (under certain conditions) in the border area
Shore A hardness	ca. 15
Temperature resistance	from -50 °C up to +160 °C (under continuous load and after complete cross-linking)
Breaking elongation	ca. 650 %
Repairing	can be repaired with the same material
Substrates	Common metals like aluminium, steel, steel sheet, galvanized steel, chrome nickel steel, copper, non-ferrous metals, glass, masonry, plastering, wood, wood-based materials, treated wood, glass, glazed ceramic (tiles), enamel, concrete, brick, artificial stones, eternit, plastics commonly used in construction, e.g. solid PVC, ABS, polystyrene foam, polyester, many thermoplastics and duroplastic plastics (except PE and PP) and most other substrates encountered in construction. For further surfaces, you will need to carry out your own tests.
Cleaning agents	Wisatyp TL 16 for cleaning non-absorbent adhesive surfaces and fresh product residues. The cured product can normally only be removed mechanically. To wash your hands, please use water and soap.
Processing temperature	from +5 °C up to +35 °C
Frost resistance	up to -15 °C (during transport)

Wikosil®-DS

Certificates / Norms	▪ EN 15651-1: F EXT-INT 25 LM (façade joints) ▪ EN 15651-2: G 25 LM (glazing joints)
Further information	More information about this product (current technical data sheet, safety data sheet, certificates, product variants, etc.) can be found via the adjacent QR code.
Item no. + Colour	**DS 8461 patina-transparent** - cartridge of 310 ml
Delivery form	Packing unit of 12 cartridges of 310 ml
Shelf life	In closed original packaging, protected from direct sunlight and stored in a dry place between +15 °C and +25 °C, the official shelf life is 16 months from date of production (the printed expiry date is decisive).

Safety and disposal: Familiarise yourself with the valid Safety Data Sheets (SDS) for the products used. All applicable safety regulations and disposal instructions must be observed.