

Elastic silicone adhesive and sealant with neutral curing, heat resistant up to 350 °C, wide range of applications

Application areas

- Wikosil-HTN is distinguished from conventional silicone sealants and other sealants by its higher heat resistance of up to 350 °C
- can be used for grouting fireplace surrounds, heating cabinets, ovens, heating and ventilation pipes, hobs, kitchens, spotlights and lamps
- for sealing in the machine and engine area
- also suitable for roof glazing and joints in glass construction
- ideal for stove construction, fireplace construction, motor production, apparatus construction, industry, glass construction, roof construction, kitchen construction, joint specialists etc.

Product benefits

- high temperature resistance up to 350 °C
- elastic
- neutral cross-linking; suitable for alkaline substrates like plastering, concrete, eternit as well as corrodible metals like steel, copper etc.
- good adhesion to glass, ceramics and metals
- good UV, weather and ageing resistance
- compatible with PVB sheets laminated safety glass
- almost odourless
- solvent-free (VOC-free)
- for indoor and outdoor use
- no risk of corrosion
- free of shrinkage and bubbles
- hardly any surface soiling

Base

Neutral cross-linking, 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 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.

Very highly absorbent and porous substrates must be pre-treated with a temperature-adapted primer.

Clean non-absorbent surfaces with Wisatyp TL 16.

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

Before sealing, the joints must be pre-filled by pressing in a heat-resistant, preferably convex backfill material so that there is an enlarged adhesive surface on the joint flanks (e.g. Wisabax BSF 1 fire protection joint cord or Wikofix FBD 550 fibreglass fire protection seal).




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

This may vary for special applications.

Joint depth	Joint width							
	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

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.

Density	ca. 1.25 g/cm ³
Consistency	pasty, firm
Skin formation	after 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	20 % for standardised joints
Setting time	ca. 2 - 3 mm on the first day, then decreasing in depth
Recoatibility	limited colour compatible (under certain conditions) in the border area
Shore A hardness	ca. 30
Temperature resistance	from -45 °C up to +350 °C (for a short time, after complete cross-linking)

The material must be completely cross-linked at the first temperature load and the temperature must be increased slowly.
In the initial phase, some odour development is normal.

Breaking elongation	ca. 350 %
Repairing	can be repaired with the same material
Substrates	Steel, chromium steel, zink, copper, aluminium, non-ferrous metals, glass, glazed ceramic (tiles), concrete, stone, artificial stones, wood-based materials, plastics like PVC-hard 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 +40 °C
Frost resistance	up to -15 °C (during transport)
Certificates / Norms	EN 15651-2: G 20 HM (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	HTN 3453 grey - cartridge of 310 ml HTN 3456 black - cartridge of 310 ml HTN 3456.600 black - tubular bag of 600 ml
Delivery form	Packing unit of 12 cartridges à 310 ml Packing unit of 12 tubular bags à 600 ml upon request
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.

Observe: All information is based on careful examinations in the labs and our previous practical experience. They are non-committal notes. Due to the many materials that are marketed and the different processing methods, which we cannot influence, we can, of course, not assume any warranty, including under patent-law, for the result of your work. We recommend performing sufficient own tests to find out if the product meets the respective requirements. In addition, we refer to our terms and conditions of sale, delivery and payment, available at www.wisabax.ch/agb.html. © Wisabax AG - This technical data sheet replaces all older versions.

Have you noticed an unclear formulation or an error? Thank you for your feedback. In case of doubt, the German version of the technical data sheet applies.