Technical Data Sheet

Wikosil®-NBS

Natural stone and marble silicone, universally applicable for elastic joints on marble, granite, sandstone, concrete, plaster, metal, glass, parquet, wood-based materials, etc. >> results in no «edge zone soiling» <<

Application areas

- Wikosil-NBS was specially developed for grouting, sealing and bonding natural stone like marble, granite, sandstone or fair faced brickwork
- universally applicable in glass construction, window manufacture, sanitary areas, kitchen construction, timber construction, floor area, metal construction etc.
- ideal for joint specialists, bottomer feeders, window fitters, carpenters, glass workshops, apparatus construction, metal construction, interior finishing, industry etc.

Product benefits

- does not leave stains on the edges, making it ideal for use on delicate surfaces such as marble and granite; no migration of plasticisers or silicone oil into the adjacent substrate as is the case with conventionally formulated silicones
- elastic
- neutral cross-linking (state-of-the-art NO-MEKO technology)
- top adhesion to glass, stone, natural stone, marble, granite, sandstone, fair faced brickwork, wood, wood-based materials, parquet, masonry, concrete,
  eternit, metal and most materials commonly used in construction
- good UV, weather and ageing resistance
- compatible with PVB sheets laminated safety glass
- fungicidal formulation (sanitary areas); best possible rating score «0», i.e., no fungal growth
- fulfils the requirements of DIN EN ISO 846:2019 acc. to method A (resistance to fungi)
- almost odourless
- solvent-free (VOC-free)
- very low-emission, fulfils GEV-Emicode EC 1 Plus
- for indoor and outdoor use
- no risk of corrosion
- free of shrinkage and bubbles
- hardly any surface soiling

Base

Silicone - neutral cross-linking, MEKO-free (2-butanone oxime is not formed); 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, PTFE (Teflon®), aquarium construction. Not recommended for backs of mirrors, but suitable for connections around mirrors. 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 significantly improved with the following primers: Wi-Primer V-03 and Wi-Primer V-23.

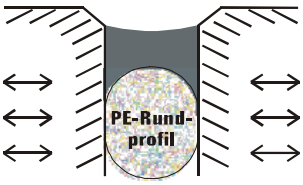
Processing as sealant

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.



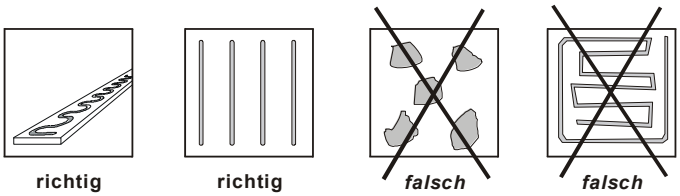
We recommend masking the edges of the joint with masking tape to ensure a clean and straight joint.

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.

Wikosil®-NBS

Processing as adhesive



Vertical bead application is recommended to ensure adequate air humidity during curing. If possible, interrupt longer beads occasionally.

Density	standard colours: ca. 1.27 g/cm³ **transparent**: ca.1.04 g/cm³
Consistency	pasty, firm
Skin formation	after 5 - 10 min under normal conditions (+23 °C, 50 % rel. humidity)
Volume shrinkage	2 - 3 % by volume
Max. total deformation	20 % for standardised joints
Setting time	ca. 2 - 3 mm on the first day, then decreasing in depth
Recoatability	limited paint compatibility in the border area
Shore A hardness	standard colours: ca. 40 **transparent**: ca. 25
Temperature resistance	from -40 °C up to +160 °C (after complete cross-linking)
Breaking elongation	ca. 350 %
Repairing	can be repaired with the same material
Substrates	Glass (incl. etched or sand-blasted), masonry, concrete, plastering, brick, clinker, stone, natural stone, marble, granite, sandstone, eternit, ceramics, enamel, wood-based materials, wood, parquet, metal, treated aluminium, copper, zink, plastics commonly used in construction, e.g. solid PVC, polyacrylate (acrylic glass), acrylic (sanitary), polystyrene 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. For polyacrylate (acrylic glass) and polycarbonate only use Wisaclean R 216. 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)

Wikosil®-NBS

Certificates / Norms

- GEV-EMICODE EC 1 Plus
- EN 15651-1: F EXT-INT (façade joints)
- EN 15651-2: G (glazing joints)
- EN 15651-3: XS1 (sanitary joints)
- EN 15651-4: PW INT (floor joints)

Standard colours
Item no. + Colour

cartridge of 310 ml

NBS 7641 transparent
NBS 7642 white
NBS 7658 light grey
NBS 7648 light grey
NBS 7645 manhattan grey
NBS 7643 concrete grey
NBS 7653 dark grey
NBS 7657 anthracite
NBS 7646 black
NBS 7674 beige grey
NBS 7661 oak
NBS 7664 beech / dark beige
NBS 7684 dark brown

Delivery form

Packing unit of 12 cartridges of 310 ml
Packing unit of 12 tubular bags of 600 ml upon request

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.

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.