TECHNICAL DATA SHEET & APPLICATION GUIDELINES

Wikosil®-IGS

Revision: **2026.1** | Silicone adhesive sealant for insulating glass edge seals

Product description

Wikosil®-IGS is an elastic, neutral-curing one-component silicone adhesive and sealant. It was developed specifically as the secondary seal for the edge seal of insulating glass units and complies with DIN EN 1279 (air-filled multiple-pane insulating glass). UV-resistant and compatible with laminated safety glass.

Applications

- Secondary seal in insulating glass edge seals
- Butt-joint bonding of insulating glass units – for overhead and vertical glazing
- Window glazing
- Building construction, glass construction, window and metal construction, industry

Advantages

1. Compatible with conventional edge-seal materials
2. Low water vapour permeability
3. Compatible with PVB interlayers in laminated safety glass
4. Neutral curing – modern NO-MEKO technology
5. Good adhesion to glass, metal, wood, wood-based materials, masonry, concrete and more
6. Very good UV, weather and ageing resistance
7. No risk of corrosion, no shrinkage, bubble-free
8. High notch strength, virtually odourless, low dirt pick-up
9. Suitable for indoor and outdoor use

Technical properties

Base	**1-component silicone, neutral curing**
Colour	**black (approx. RAL 7021)**
Density	**approx. 1.25 g/cm³**
Consistency	**paste-like, non-sag**
Skin formation	**5 – 10 min (+25 °C, 60 % RH)**
Curing rate	**approx. 3 mm on day one, decreasing with depth**
Volume shrinkage	**< 3 %**

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Shore A hardness	**approx. 30**
Modulus at 100 %	**approx. 0.5 N/mm² (DIN 52455)**
Elongation at break	**approx. 350 %**
Max. movement capability	**approx. 20 % (EN 15651-2); as IG edge seal max. 5 %**
Temperature resistance	**−50 °C to +200 °C (fully cured)**
Application temperature	**+5 °C to +40 °C**
Frost resistance	**down to −15 °C (during transport)**
Paintability	**limited, edge areas only**

Standards & certificates

EN 15651-2	**G 20 HM – glazing joints**
DIN EN 1279-2	**Air-filled multiple-pane insulating glass**
DIN EN 1279-4	**Sealant for insulating glass edge seals**

Suitable substrates

Glass, aluminium, steel, zinc, non-ferrous metals, enamel, wood-based materials, treated wood, masonry, concrete, plaster, brick, artificial stone, fibre cement and common construction plastics such as rigid PVC, ABS, polystyrene foam and polyester. Carry out your own tests on other surfaces.

Limitations

Not suitable for substrates containing oil, bitumen or wax, nor for PE, PP and PTFE. For butt joints between insulating glass units (e.g. all-glass façades), please consult us beforehand regarding compatibility with other edge-seal materials.

Surface preparation

Bonding surfaces must be sound, dry and free from dust and grease. Prime absorbent and porous substrates with Wi-Primer V-02 (solvent-free alternative: Wi-Primer V-01). Clean non-absorbent surfaces with Wisatyp TL 16. Glass and most smooth substrates normally require no primer.

> **Important:** Always check treated and non-absorbent surfaces with an adhesion test first.

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Joint dimensioning

Minimum joint width 4 mm, minimum joint depth 4 mm · maximum joint width 25 mm, maximum joint depth 12 mm.

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 dimension for moving joints
- Borderline dimension for slightly moving joints
- Dimension for non-stressed joints

Application guidelines

1. Mask the joint edges with masking tape to obtain a clean, straight joint.
2. Apply the sealant with sufficient pressure against the joint flanks; avoid trapping air bubbles.
3. Tool before skin formation using a suitable spatula – smoothing agent Wikofix GM 52 has proven itself in practice. Do not use household detergents.
4. Remove the masking tape immediately after application. The product cures with atmospheric moisture – allow the sealant to air freely.
5. Repairs can be made with the same material.

Insulating glass production

As a secondary edge seal, Wikosil®-IGS is always combined with a primary butyl rubber seal (e.g. Wikofix-BBI) acting as a vapour barrier. Make sure the outer corners are also completely filled with Wikosil®-IGS.

Bonding

For surface bonding of two non-absorbent substrates, apply the adhesive in vertical beads so that enough atmospheric moisture can reach it during curing.

Cleaning

Remove fresh residues and clean non-absorbent bonding surfaces with Wisatyp TL 16. Cured material can only be removed mechanically. Wash hands with soap and water.

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Packaging & article numbers

Article no.	Pack	Colour	Box
IGS 4646	Cartridge 310 ml	black (approx. RAL 7021)	12 pcs
IGS 4646.600.12	Foil pack 600 ml	black (approx. RAL 7021)	12 pcs

Other pack sizes on request.

Storage & shelf life

16 months from the date of manufacture in unopened original packaging, stored dry, protected from direct sunlight, at +15 °C to +25 °C. The printed expiry date is authoritative.

Safety & disposal

Read the current Safety Data Sheet (SDS) before use. Observe all applicable safety regulations and disposal instructions. The SDS is available from GLASSTEC on request.

Disclaimer

All information is based on careful laboratory testing and practical experience and is provided without obligation. Given the wide variety of materials and application methods beyond our control, no guarantee can be given for the result of the work. Users must carry out sufficient tests of their own to verify that the product is suitable for the intended application. This data sheet supersedes all previous versions.

Supplier

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