

PRODUCT DATA SHEET

Sikasil® WT-40

HIGH-PERFORMANCE, 1-COMPONENT WINDOW BONDING ADHESIVE

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Color (CQP001-1)	Black, grey S6, white S3
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	1.4 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	Good
Application temperature	ambient 5 – 40 °C
Skin time (CQP019-1)	20 minutes ^A
Tack free time (CQP019-3)	180 minutes ^A
Curing speed (CQP049-1)	(see diagram)
Shore A hardness (CQP023-1 / ISO 7619-1)	40
Tensile strength (CQP036-1 / ISO 527)	2.1 MPa
100 % modulus (CQP036-1 / ISO 527)	0.9 MPa
Elongation at break (CQP036-1 / ISO 527)	400 %
Tear propagation resistance (CQP045-1 / ISO 34)	7 N/mm
Service temperature	-40 – 150 °C
Shelf life (CQP016-1)	9 months ^B

CQP = Corporate Quality Procedure

^{A)} 23 °C / 50 % r. h.^{B)} storage below 25 °C**DESCRIPTION**

Sikasil® WT-40 is a 1-component, neutral-curing structural silicone adhesive with very high mechanical strength, for structural bonding of insulating glass units into window frames and for back-bedding applications.

PRODUCT BENEFITS

- Excellent adhesion to a wide variety of substrates
- Outstanding UV and weathering resistance
- Very high mechanical strength
- Good gap-filling capabilities
- Remains flexible over a wide temperature range
- Long-term durability

AREAS OF APPLICATION

Sikasil® WT-40 has a wide adhesion range on many substrates such as glass, (coated) metal, wood, PVC and many other substrates. In combination with its good mechanical properties, especially the high modulus of elasticity, this makes the adhesive most suitable for structural bonding of insulating glass units into window frames and for back-bedding applications. It is further suitable for highly demanding industrial bonding and sealing applications.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

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CURE MECHANISM

Sikasil® WT-40 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

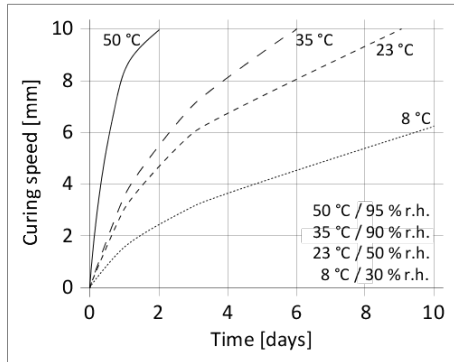


Diagram 1: Curing speed Sikasil® WT-40

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

Application

The optimum temperature for substrate and sealant is between 15 °C and 25 °C.

Sikasil® WT-40 can be processed with hand, pneumatic or electric driven piston guns as well as pump equipment. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Joints must be properly dimensioned.

Basis for calculation of the necessary joint dimensions are the technical values of the adhesive and the adjacent building materials, the exposure of the building elements, their construction and size as well as external loads.

Joints deeper than 15 mm must be avoided.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant or adhesive.

When tooling freshly applied Sikasil® WT-40, press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents must be used.

Removal

Uncured Sikasil® WT-40 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H cleaning towels or a suitable industrial hand cleaner and water. Do not use solvents on skin.

Overpainting

Sikasil® WT-40 cannot be overpainted.

Application limits

Recommended solution from Sika for structural glazing and window bonding are usually compatible to each other. These solutions consist of products such as Sikasil® SG, IG, WS and WT series. For specific information regarding compatibility between various Sikasil® products and other Sika products contact the Technical Department of Sika Industry.

To exclude materials influencing Sikasil® WT-40, all materials such as gaskets, tapes, setting blocks, sealants, etc., in direct and indirect contact have to be approved by Sika in advance.

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next one.

The above mentioned Sika process materials may only be used in structural glazing or window bonding applications after a detailed examination and written approval of the corresponding project details by Sika Industry.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets
- General Guidelines
- Window Bonding Sikasil® WT Adhesives

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	600 ml
Pail	25 kg
Drum	250 kg

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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