

ТЕХНИЧЕСКОЕ ОПИСАНИЕ ПРОДУКТА

Sikasil® SG-500

High-performance, 2-component silicone structural glazing adhesive, CE-marked

TYPICAL PRODUCT DATA (ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ В ПАСПОРТЕ БЕЗОПАСНОСТИ)

Properties	Sikasil® SG-500 (A)	Sikasil® SG-500 (B)
Chemical base	2-component silicone	
Color (CQP001-1)	White / light grey	Black / dark grey
	mixed	Black / grey S6
Cure mechanism	Polycondensation	
Cure type	Neutral	
Density (uncured)	1.4 kg/l	1.1 kg/l
	mixed	1.4 kg/l
Mixing ratio	A:B by volume	10:1
	A:B by weight	13:1
Viscosity (CQP029-6)	1 100 Pa·s	300 Pa·s
Consistency	Paste	
Application temperature	ambient	5 – 40 °C
Snap time (CQP554-1)	50 minutes ^A	
Tack free time (CQP019-3)	240 minutes ^A	
Shore A hardness (CQP023-1 / ISO 7619-1)	45	
Tensile strength (CQP036-1 / ISO 527)	2.2 MPa	
100 % modulus (CQP036-1 / ISO 527)	1.1 MPa	
Elongation at break (CQP036-1 / ISO 527)	300 %	
Tear propagation resistance (CQP045-1 / ISO 34)	6 N/mm	
Service temperature (CQP513-1)	-40 – 150 °C	
Shelf life (CQP016-1)	15 months ^B	12 months ^B

CQP = Corporate Quality Procedure

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

ОПИСАНИЕ

Sikasil® SG-500 is a 2-component, high-modulus, neutral-curing structural silicone adhesive. It is mainly used for structural glazing applications. It is complying with EOTA ETAG 002 and provided with the CE-mark.

ПРЕИМУЩЕСТВА ПРОДУКТА

- Meets requirements of EOTA ETAG 002 (carries ETA), EN 15434 and ASTM C 1184
- Structural sealant for use in structural sealant glazing kits according ETAG 002 Part 1 Edition November 1999 (Revised March 2012) used as EAD, ETA-03/0038 issued by Technical Assessment Body Deutsches Institut für Bautechnik, Declaration of Performance 15754339, certified by notified product certification body 0757, certificate of constancy of performance 0757-CPR-596-7110761-4-4, and provided with the CE marking
- Design tensile strength for dynamic loads: $\sigma_{des} = 0.14$ MPa (ETA)
- SNJF-VEC recognized (product code: 2433)
- Fire rated class B1 (DIN 4102-1)
- Outstanding UV and weathering resistance

ОБЛАСТЬ ПРИМЕНЕНИЯ

Sikasil® SG-500 is ideal for structural glazing and other high-demanding industrial 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.

ТЕХНИЧЕСКОЕ ОПИСАНИЕ ПРОДУКТА

Sikasil® SG-500
Версия 03.01 (05 - 2020), ru_RU
012703130009001000

МЕХАНИЗМ ОТВЕРЖДЕНИЯ

Sikasil® SG-500 starts to cure immediately after mixing the two components. The speed of the reaction depends mainly on the temperature, i.e. the higher the temperature the faster the curing process. Heating above 50 °C could lead to bubble formation and is therefore not allowed. The mixer open time, i. e. the time the material can remain in the mixer without flushing or extrusion of product, is significantly shorter than the snap time indicated above.

МЕТОД НАНЕСЕНИЯ

Подготовка поверхности

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.

Применение

The optimum temperature for substrate and sealant is between 15 °C and 25 °C. Before processing Sikasil® SG-500 both components have to be mixed homogeneously and air-bubble-free in the correct ratio as indicated with an accuracy of ± 10 %. Most commercially available metering and mixing equipment are suitable. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry. Consider that the B-component is moisture-sensitive and must therefore only be exposed briefly to air.

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.

Разделка швов

Tooling and finishing must be carried out within the snap time of the adhesive. When tooling freshly applied Sikasil® SG-500, press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents must be used.

Удаление

Uncured Sikasil® SG-500 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Re-usable, usually metallic, static mixer can be cleaned with Sika® Mixer Cleaner.

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.

Окрашиваемость

Sikasil® SG-500 cannot be overpainted.

Ограничения при применении

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® SG-500, all materials such as gaskets, 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.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

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 Guideline
Structural Silicone Glazing with
Sikasil® SG Adhesives

ИНФОРМАЦИЯ ПО УПАКОВКЕ

Sikasil® SG-500 (A)

Pail	26 kg
Drum	260 kg

Sikasil® SG-500 (B)

Pail	20 kg
------	-------

Sikasil® SG-500 (A+B)

Side by side cartridge	490 ml
------------------------	--------

ОСНОВАНИЕ ДЛЯ ПРЕДОСТАВЛЕННЫХ ДАННЫХ

Все технические параметры, приведенные в данном документе, основаны на результатах лабораторных тестов. Реальные их значения в ходе измерений могут отличаться по независящим от нас причинам.

ИНФОРМАЦИЯ ПО ОХРАНЕ ЗДОРОВЬЯ И БЕЗОПАСНОСТИ

Для получения более детальной информации по транспортировке, переработке и утилизации химических продуктов следует обращаться к Паспорту Безопасности Продукта, который содержит физические, экологические, токсикологические и другие связанные с безопасностью данные.

ЮРИДИЧЕСКОЕ ПРИМЕЧАНИЕ

Информация и детальные рекомендации по нанесению и конечному использованию продуктов Sika предоставлены добросовестно и базируются на знаниях и опыте компании Sika. Приведенные данные действительны только в случае правильного транспортирования, хранения, нанесения и использования в соответствии с рекомендациями компании Sika. Из-за различий в материале, поверхностях и действительных условиях нанесения и применения не может гарантироваться надлежащее товарное состояние или пригодность продукта для определенных целей. Также не гарантируется ответственность, возникающая в случае каких-либо договорных отношений, выводов полученных из этой информации, из письменных рекомендаций или из других предоставленных источников информации. Пользователь продукта должен самостоятельно протестировать продукт на пригодность для требуемого применения. Sika оставляет за собой право изменять свойства продуктов. Права собственности третьей стороны должны быть соблюдены. Все заказы принимаются в соответствии с существующими условиями по продаже и доставке товаров. Пользователь должен всегда руководствоваться последними изданиями Технических Описаний Продукта для используемого продукта, которые могут быть предоставлены по запросу.

ТЕХНИЧЕСКОЕ ОПИСАНИЕ ПРОДУКТА

Sikasil® SG-500
Версия 03.01 (05 - 2020), ru_RU
012703130009001000

