

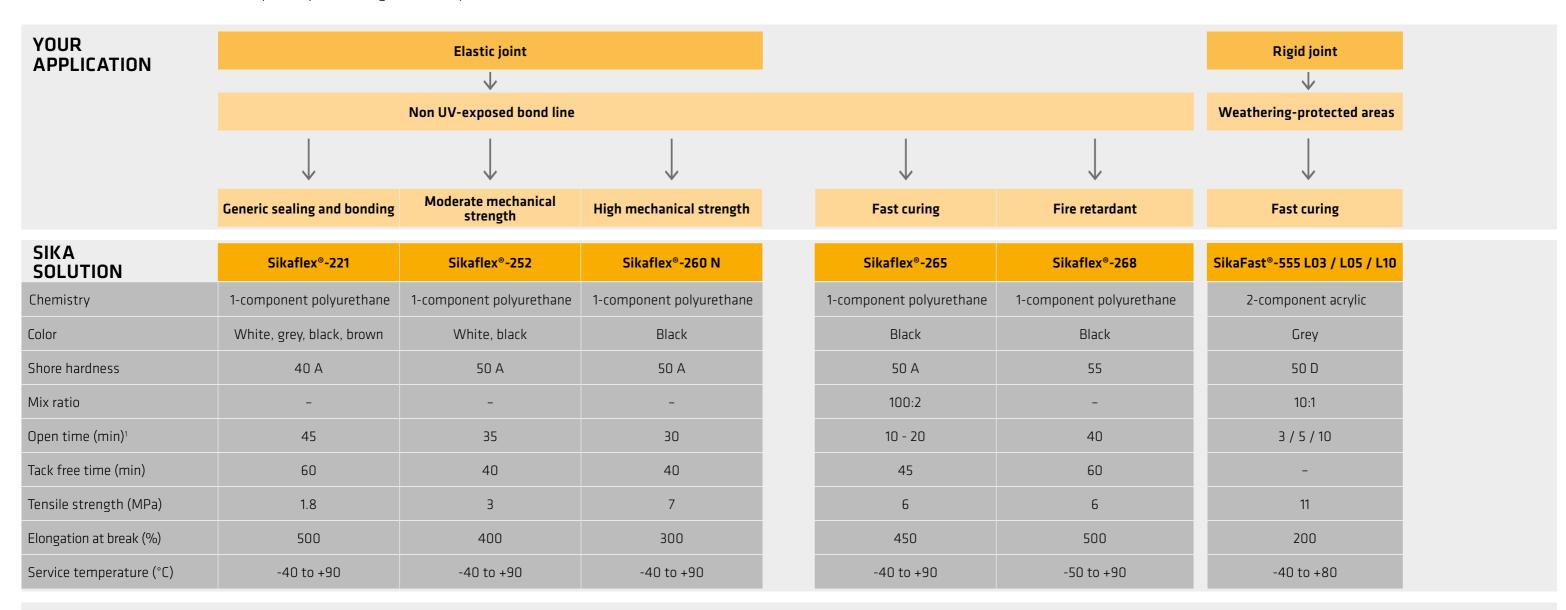
AUTHORIZED SIKA DISTRIBUTOR PRODUCT SELECTOR GUIDE FOR MINERAL GLASS



MINERAL GLASS BONDING AND SEALING

PART 1: NON-UV-EXPOSED APPLICATIONS

Sika offers a wide range of technologies and products for bonding mineral glass and glazing applications. These could be in windows, facades, doors, windshields, equipment housings, containers or building elements. Glass could be ceramic or primer coated both for aesthetics and to protect bond line from UV rays. Sika solutions with no UV-exposure are indicated in this section. This guide provides general selector guidance. Always consult the most actual Product Data Sheets prior to product usage or consult your Sika contact.



PRODUCT DESCRIPTION

Sikaflex®-221

is a well-known brand found for years in numerous applications. Sikaflex®-221 is suitable for elastic and durable sealing joints. It adheres to many substrates such as metals, paintings, wood, ceramics and plastics.

Sikaflex®-252

is a high-performance adhesive for elastic and durable assembly jobs that are exposed to high and dynamic stress. Sikaflex®-252 adheres to many substrates such as metals, paintings, wood, ceramics and plastics.

Sikaflex®-260 N

is suitable for dynamically highly stressed bonding applications. Do not use on stress cracking sensitive substrates.

Sikaflex®-265

is designed for direct glazing, general bonding and sealing applications. Good tooling properties and the enhanced weathering resistance allow using it for exposed joints. To accelerate curing, it can be used in conjunction with Sika® Booster Paste.

Sikaflex®-268

is an adhesive suitable for assembly bonding and glazing applications; its outstanding weathering resistivity and unique resistance to a wide variety of cleaning agents make it an ideal solution for use in exterior joints in the rail industry. Sikaflex®-268 is compatible with Sika's black-primerless bonding process and it can be accelerated with Sika's Booster and PowerCure systems. Sikaflex®-268 passes EN45545 R1/R7 HL3 and has very good processing and tooling characteristics.

SikaFast®-555

is an acrylic based, fast curing, flexibilized structural, 2-component adhesive. It has a pasty-like consistency allowing for vertical and horizontal, easy and precise application. It is suitable to replace mechanical fixation and provides very good adhesion on various substrates such as metals, plastics, glass and wood. It is available with 3 minutes (LO3), 5 minutes (LO5) and 10 minutes (L10) open time.

¹Equal to skin time for 1-component and snap time for 2-component technology

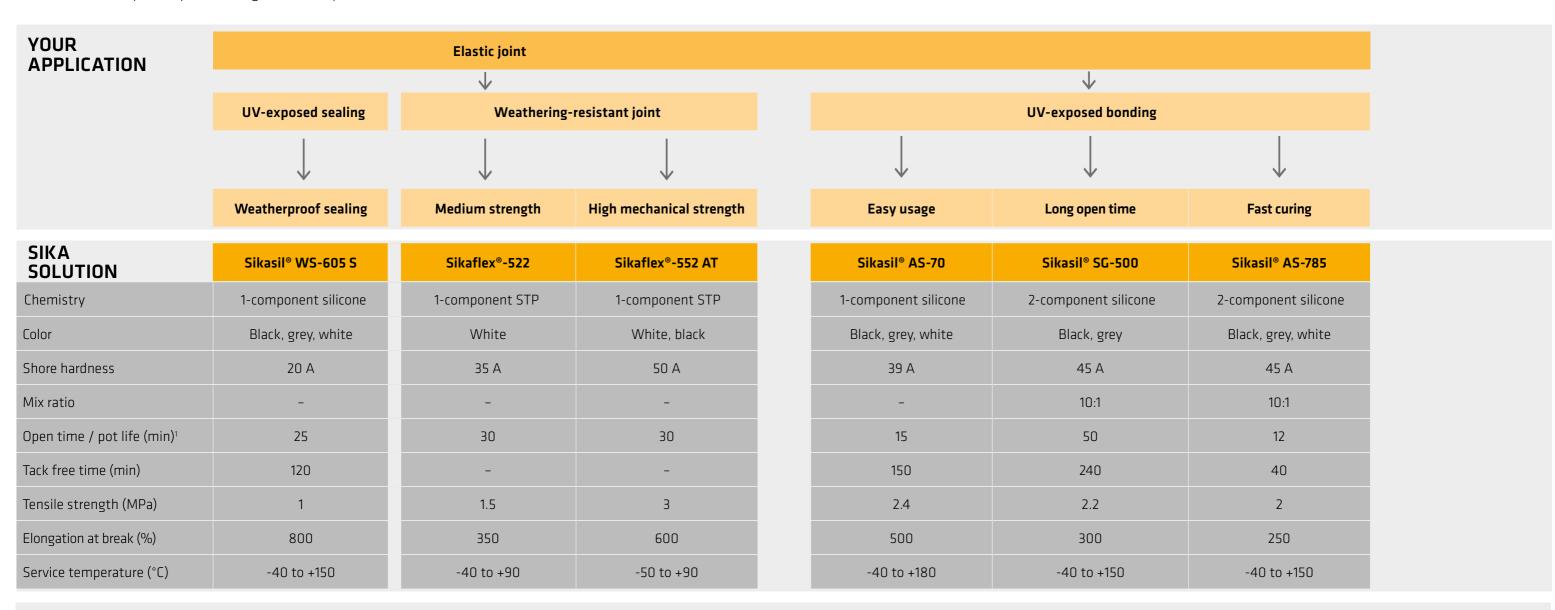
*For Sikaflex® grades 2xx and 5xx, please refer to Sika Pretreatment Chart.

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MINERAL GLASS BONDING AND SEALING

PART 2: UV-EXPOSED AND WEATHERING-RESISTANT SOLUTIONS

Sika offers a wide range of technologies and products for bonding and sealing mineral glass and glazing applications. These could be in windows, facades, doors, windshields, equipment housings, containers or building elements. The bond line could be partially or fully UV-exposed. Sika solutions with UV exposure and weathering resistance are indicated in the table below. This guide provides general selector guidance. Always consult the most actual Product Data Sheets prior to product usage or consult your Sika contact.



PRODUCT DESCRIPTION

¹Equal to skin time for 1-component and snap time for 2-component technology

*For Sikaflex® grades 2xx and 5xx, please refer to Sika Pretreatment Chart.

Sikasil® WS-605 S

can be used for weatherproofing and sealing applications where durability under severe conditions is required. It is particularly suited as a weather seal for structural glazing, curtain walling and windows.

Sikaflex®-522

adheres well to a wide variety of substrates and is suitable for elastic sealing and bonding. Suitable substrate materials include timber, metals, metal primers and paint coatings (2-C systems), ceramic materials and plastics. Low emission, meets VDI 6022 and is approved for incidental food contact.

Sikaflex®-552 AT

is suitable for joints subjected to dynamic stresses. Suitable substrate materials are metals, particularly aluminum, metal primers, paint coatings, sheet steel, ceramic materials and plastics. Seek manufacturer's advice before using on plastics that are prone to stress cracking.

Sikasil® AS-70

can be used for structural sealant glazing in facades, windows or other building elements. It is perfectly suitable for bonding of photovoltaic and solar thermal modules and other high-demanding industrial applications.

Sikasil® SG-500

is a 2-component, high-modulus, neutral curing structural silicone adhesive mainly used for structural glazing applications, bonding of solar modules and other highdemanding industrial applications, meets requirements of:

- EOTA ETAG 002, EN 13022 and ASTM C 1184
- SNJF-VEC / VI-VEC recognized
- Fire rated (EN 11925-2 / DIN 4102-B1) structural silicone adhesive according to ETAG 002, DoP 91596073.

Sikasil® AS-785

is a 2-component, non-corrosive, fast-curing silicone sealant and adhesive, especially designed for automated bonding of structural adhesive joints. It is further suitable for high demanding industrial bonding and sealing applications like in the Solar and White Goods business, meets:

- EOTA ETAG 002
- UL® certified: UL94 V-1, QOQW2 (-40 °C 105 °C).

APPLICATION EXAMPLES

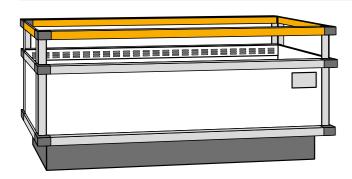
Sika technologies are suitable to bond the most common substrates used for industrial applications, offering a competitive advantage with cost-optimized and reliable solutions. Manufacturers of refrigerators and vending machines use Sika solutions to bond and perfectly seal glass doors and covers; while temperature control and food preservation are combined with aesthetics. Sikaflex® solutions fully meet all these requirements, providing structural and durable bond on glass, aluminum and stainless steel frames. Moreover, SikaFast® solutions can be used for fast fixture applications of small components such as displays, pushbuttons, plates and mounting brackets.

ADVANTAGES

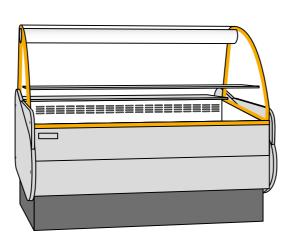
- No welding process and metal buckling
- Smooth look without visible clamps or screws
- Possible use of thinner metal sheets
- Reliable and durable joints
- Easy and fast process: sealing and bonding in one step

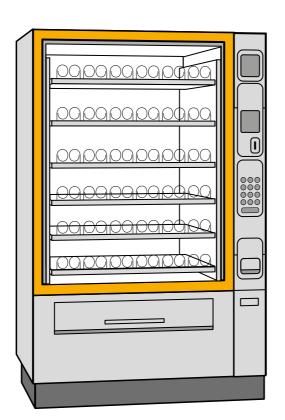
PRODUCT FEATURES

- Structural adhesives and sealants
- Optimized both for large and short scale industrial applications
- Non-sag properties for vertical applications
- High elongation and tensile strength properties with Sikaflex®-260 N
- Gap filling and short handling time with the 2-component technology of SikaFast®-555 LO5
- Food approved solutions (indirect contact): Sikaflex®-522 and Sikaflex®-252



Structural bonding and sealing of mineral glass on metal frame with Sikaflex®-260 N. For applications requiring food approval, Sikaflex®-522 and Sikaflex®-252 can be used. Reliable assembly of displays and small components in plastics and metals with SikaFast®-555 L05. Body removable sealing with SikaLastomer®-710.







APPLICATION EXAMPLES

Sika technologies for production of entrance doors out of wood, PVC technology contribute particularly to:

Weatherproof or aluminum are suitable for single and serial production of door panels, ■ Special sizes frames as well as side panel glazing ■ Burglary protection made of various materials.

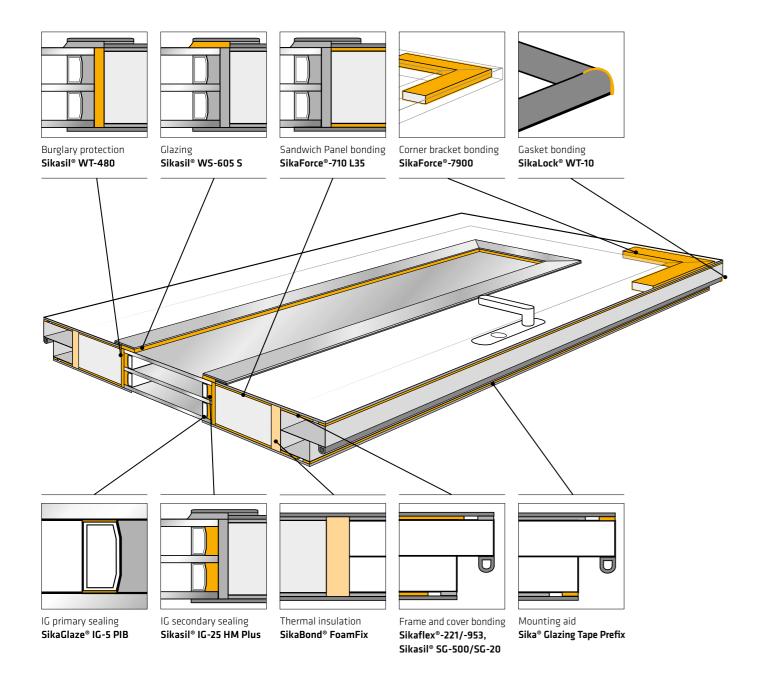
The advantages of the adhesive

- Modern door design

- Warping stabilization
- Thermal insulation

Sika adhesives and sealants are:

- Temperature resistant
- Process optimised
- Tested by certification institutes





NOTES

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GLOBAL BUT LOCAL PARTNERSHIP



LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use 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.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.







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