

## PRODUCT DATA SHEET

# Sikaflex®-521 UV

WEATHERING-RESISTANT STP ADHESIVE SEALANT WITH A WIDE ADHESION RANGE

**TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)**

Chemical base		Silane Terminated Polymer
Color (CQP001-1)		White, grey
Cure mechanism		Moisture-curing
Density (uncured)	depending on color	1.4 kg/l (11.7 lb/gal)
Non-sag properties		Good
Application temperature	ambient	5 – 40 °C (41 – 104 °F)
Skin time (CQP019-1)		30 minutes <sup>A</sup>
Curing speed (CQP049-1)		(see diagram 1)
Shrinkage (CQP014-1)		2 %
Shore A hardness (CQP023-1 / ISO 48-4)		40
Tensile strength (CQP036-1 / ISO 527)		1.8 MPa (260 psi)
Elongation at break (CQP036-1 / ISO 527)		400 %
Tear propagation resistance (CQP045-1 / ISO 34)		5.5 N/mm (30 pli)
Service temperature (CQP513-1)		-50 – 90 °C (-58 – 194 °F)
	4 hours	140 °C (284 °F)
	1 hour	150 °C (302 °F)
Shelf life	cartridge / unipack	12 months <sup>B</sup>

CQP = Corporate Quality Procedure

<sup>A</sup>) 23 °C (73 °F) / 50 % r. h.<sup>B</sup>) storage below 25 °C (77 °F)

## DESCRIPTION

Sikaflex®-521 UV is a weathering-resistant 1-component Silane Terminated Polymer (STP) adhesive / sealant that bonds well to a wide variety of bonding surfaces such as metals, ABS, PC, FRP and wood with usually no need for special treatment. This multipurpose product is suitable for internal and external sealing applications.

## PRODUCT BENEFITS

- Aging and weathering-resistant
- Bonds well to a wide variety of substrates without the need for special pre-treatment
- Isocyanate- and solvent-free
- Can be painted
- Can be sanded
- Low odor

## AREAS OF APPLICATION

Sikaflex®-521 UV 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-component systems), ceramic materials and plastics.

This multipurpose product is suitable for internal and external sealing applications. Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-521 UV on materials prone to stress cracking. This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

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Sikaflex®-521 UV

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## CURE MECHANISM

Sikaflex®-521 UV 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).

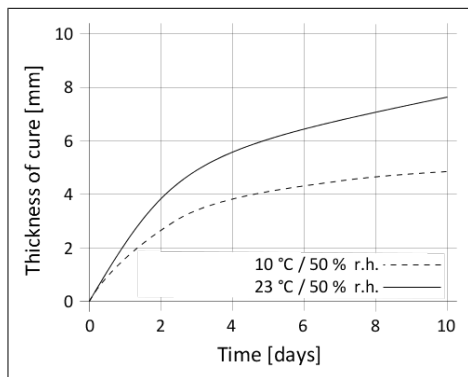


Diagram 1: Curing speed Sikaflex®-521 UV

## CHEMICAL RESISTANCE

Sikaflex®-521 UV is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

## 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. Suggestions for surface preparation may be found on the current edition of the appropriate Sika® Pre-Treatment Chart. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates.

## Application

Sikaflex®-521 UV can be processed between 5 °C and 40 °C (41 °F and 104 °F) but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and sealant is between 15 °C and 25 °C (59 °F and 77 °F).

Sikaflex®-521 UV can be processed with hand, pneumatic or electric driven piston guns.

## Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant. It is recommended using Sika® Slick. Other finishing agents must be tested for suitability and compatibility prior to the use.

## Removal

Uncured Sikaflex®-521 UV can 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 a suitable industrial hand cleaner and water.

Do not use solvents on skin.

## 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
- Sika Pre-treatment Chart  
Silane Terminated Polymer
- General Guidelines  
Bonding and Sealing with Sikaflex® and SikaTack®

## PACKAGING INFORMATION

Cartridge	300 ml
Unipack	600 ml

## 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.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by contacting SIKA's Technical Service Department via email at [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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## Sika Corporation

30800 Stephenson Highway  
Madison Heights, MI 48071  
U.S.A.  
Telephone: +1 248-577-0020  
Email: [tsmh@us.sika.com](mailto:tsmh@us.sika.com)  
[www.sikausa.com](http://www.sikausa.com)

