

BUILDING TRUST

PRODUCT DATA SHFFT

Sikaflex[®]-505 UV Hi Visc

Multi purpose thixotropic silane terminated polymer adhesive sealant

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Silane Terminated Polymer
Color (CQP001-1)		White
Cure mechanism		Moisture-curing
Density (uncured)		1.60 kg/l (13.4 lb/gal)
Non-sag properties		Good
Application temperature	ambient, prod	uct 5 – 40 °C (41 – 104 °F)
Skin time (CQP019-1)		8 minutes ^A
Curing speed (CQP049-1)		(see diagram 1)
Shore A hardness (CQP023-1 / ISO 48-4)		50
Tensile strength (ASTM D412)		1.5 MPa (220 psi)
Elongation at break (ASTM D412)		200 %
Service temperature (CQP513-1)		-40 – 90 °C (-40 – 194 °F)
Shelf life		12 months ^B
CQP = Corporate Quality Procedure	^{A)} 23 °C (73 °F) / 50 % r.h.	^{B)} stored below 25 °C (77 °F)

DESCRIPTION

Sikaflex®-505 UV Hi Visc is a 1-component silane terminated polymer (STP) adhesive sealant that cures on exposure to atmospheric moisture.

It exhibits a higher thixotropy for more demanding production processes that are prone to sag such as overhead applications.

Sikaflex[®]-505 UV Hi Visc has very good adhesion to a wide range of substrates and is weather resistant making it suitable for open joints.

PRODUCT BENEFITS

- Superior application properties
- Very good adhesion to a wide variety of substrates
- Contains no solvents or isocyanates
- Low VOC content
- Very good weathering resistance

AREAS OF APPLICATION

Sikaflex®-505 UV Hi Visc is suitable for interior and exterior sealing as well as simple bonding for transportation and industrial applications including trailers, recreational vehicles, metal buildings, and HVAC units. It exhibits very good adhesion to many substrates including aluminum, steel, glass, marble, wood and many different types of plastic.

Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-505 UV Hi Visc on materials prone to stress cracking.

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

PRODUCT DATA SHEET Sikaflex®-505 UV Hi Visc Version 03.01 (04 - 2023), en_US 012401205050001100

CURE MECHANISM

Sikaflex®-505 UV Hi Visc 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).

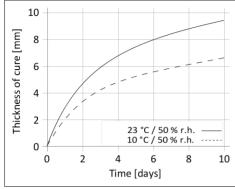


Diagram 1: Curing speed Sikaflex®-505 UV Hi Visc

CHEMICAL RESISTANCE

Sikaflex®-505 UV Hi Visc 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, dust and contaminants.

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®-505 UV Hi Visc can be processed at temperatures (climate and product) 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 process material is between 15 °C and 25 °C (59 °F and 77 °F). Sikaflex®-505 UV Hi Visc can be processed with manual, pneumatic or electric driven piston guns.

Tooling and finishing

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

Removal

Uncured Sikaflex[®]-505 UV Hi Visc 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 a suitable industrial hand cleaner and water.

Do not use solvents on skin.

Overpainting

Sikaflex[®]-505 UV Hi Visc can be best painted within the skin formation time. If painting process takes place after the sealant has built a skin, adhesion could be improved by treating the joint surface with Sika[®] Aktivator-100 or Sika[®] Aktivator-205 prior to paint process. If the paint requires a baking process (> 80 °C / 176 °F), best performance is achieved by allowing the sealant to fully cure first. All paints have to be tested by carrying preliminary trials under manufacturing conditions.

The elasticity of paints is usually lower than that of sealants. This could lead to cracking of the paint in the joint area.

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
- For Silane Terminated Polymers • General Guideline
- Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	400 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 or by contacting SIKA's Technical Service Department via email at 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EX-PRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FIT-NESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling +1 800-933-7452.

PRODUCT DATA SHEET

Sikaflex⁹-505 UV Hi Visc Version 03.01 (04 - 2023), en_US 012401205050001100 Sika Corporation 30800 Stephenson Highway Madison Heights, MI 48071 U.S.A. Telephone: +1 248-577-0020 Email: tsmh@us.sika.com

www sikausa com

