

# Sikaflex® -295i UV

## Marine Weather Resistant Adhesive/Sealant

Technical Product Data (typical values) \*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

|   |                                |  |
|---|--------------------------------|--|
| Chemical base                                     | 1-C polyurethane               |  |
| Color (CQP <sub>1</sub> 001-1)                    | Black, White                   |  |
| Cure mechanism                                    | Moisture-curing                |  |
| Density (uncured) (CQP 006-4)                     | 10.8 lb/gal                    |  |
| VOC   | 3.6 g/L                        |  |
| Non-sag properties                                | Good                           |  |
| Application temperature                           | Product                        | 50°F - 95°F (10°C - 35°C)                                  |
| Tack free time <sup>2</sup> (CQP 019-1)           | 60 min.                        |  |
| Curing speed (CQP 049-1)                          | (see diagram 1)                |  |
| Shrinkage (CQP 014-1)                             | 1%                             |  |
| Shore A hardness (CQP 023-1 / ISO 868)            | 35                             |  |
| Tensile strength (CQP 036-1 / ISO 37)             | 290 psi                        |  |
| Elongation at break (CQP 036-1 / ISO 37)          | 700%                           |  |
| Tensile lap-shear strength (CQP 046-1 / ISO 4587) | 210 psi                        |  |
| Service temperature (CQP 513-1)                   | Permanent<br>4 hours<br>1 hour | -40 - 195°F (-40 - 90°C)<br>250°F (120°C)<br>280°F (140°C) |
| Shelf life (storage below 77°F (25°C))            | Cartridges                     | 12 months  |

<sup>1)</sup> CQP= Corporate Quality Procedures <sup>2)</sup>73°F (23°C) / 50% r.h.

### Description

Sikaflex®-295i UV is a 1-component polyurethane adhesive that cures on exposure to atmospheric moisture to form a durable elastomer. Sikaflex®-295i UV meets the requirements set out by the International Maritime Organization (IMO). Sikaflex®-295i UV is manufactured in accordance with the ISO 9001 / 14001 quality assurance system and with the responsible care program.

### Product Benefits

- 1-C formulation
- Aging and weathering resistant
- Fast cure time
- Paintable and sandable
- Salt water resistant
- Short cut-off string
- Suitable for organic glass
- High thixotropy / good gap filling properties
- Wheel Mark Approved

### Areas of Application

Sikaflex®-295i UV black is intended to be used as an adhesive and/or sealant in bonding applications for polycarbonate windows and acrylic (PMMA) windows. Black: Use in conjunction with Sika® Aktivator and Sika® Primer 209D. Prior to use, always refer to installation guide available at [www.sikausa.com](http://www.sikausa.com).

Sikaflex®-295i UV white is intended to be used as a sealant in open joints between glass, ceramics, metals, many plastics, fiberglass and many types of paint. Use in conjunction with Sika® Aktivator 205 or Sika® Aktivator. Refer to the Surface Preparation Guidelines for further information. It is not intended to bond mineral glass.

Industry



Prior to use, always refer to installation guide available at [www.sikausa.com](http://www.sikausa.com). 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.

### Cure Mechanism

Sikaflex®-295i UV cures by reaction with atmospheric moisture. At low temperature the water content of the air is generally lower and the curing reaction proceeds more slowly. (see diagram 1).

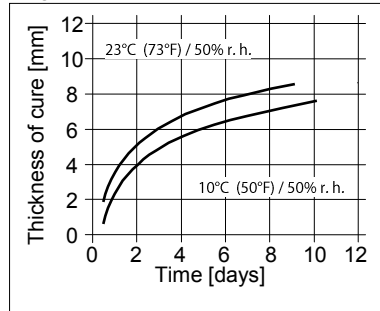


Diagram 1: Curing speed Sikaflex®-295i UV

### Chemical Resistance

Sikaflex®-295i UV is resistant to fresh water, seawater, aqueous, chlorine free cleaning solutions and sewage effluent as well as diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids, caustic solutions or paint thinners. The above information is offered for general guidance only. Advice on specific applications will be given on request.

### Method of Application

#### Surface preparation

Surfaces must be clean, dry and free from all traces of grease, oil, dust, and standing moisture. As a rule the surfaces must be prepared in accordance with the instructions given in the current Sika® Primer Chart. Keep the work area shielded from direct sunlight and temperature extremes. Advice on specific

projects is available from the Technical Service Department of Sika Industry via e-mail at [tsmh@us.sika.com](mailto:tsmh@us.sika.com).

### Application

To ensure a uniform thickness of adhesive bead, we recommend that the adhesive be applied as a triangular bead (see figure 1). The nozzle cut dimensions and the number of beads applied are dependent upon the required width and thickness of the adhesive bead in the final assembly. Correct joint design is essential when bonding plastic glazing materials and must take into account the special properties of these substrates. Do not apply at temperatures below 50°F or above 95°F (10°C or above 35°C). The optimum temperature for substrate and adhesive is between 59°F and 77°F (15°C -25°C). For advice on selecting and setting up a suitable pump system, as well as on the techniques of pump operated application, please contact the System Engineering Department of Sika Industry via e-mail at [tsmh@us.sika.com](mailto:tsmh@us.sika.com).

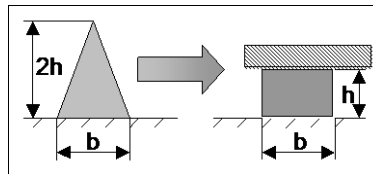


Figure 1: Recommended bead configuration

### Tooling and finishing

Tooling and finishing must be carried out within the tack-free time of the adhesive. We recommend the use of Sika®-Slick. Other finishing agents or lubricants must be tested for suitability/compatibility.

### Removal

Uncured Sikaflex®-295i UV 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 should be washed immediately using a suitable industrial hand

cleaner and water. Do not use solvents on hands!

### Overpainting

Sikaflex®-295i UV may be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. Sikaflex®-295i UV should not be exposed to baking temperatures until it has attained full cure. It should be understood that the hardness and film thickness of the paint might impair the elasticity of the sealant and lead to cracking of the paint film with time. PVC based paints and paints that dry by oxidation (oil or alkyd resin based) are generally not suitable to overpaint.

### Limitations

- Do not apply on frozen surface or through standing water or under water.
- Do not apply over silicones or in the presence of curing silicones.
- Do not apply over Silane Terminated Polymer (STP) sealants, or in the presence of curing STP products.
- Avoid contact with alcohol and alcohol containing solvents during cure.
- Allow minimum of 1-week full cure prior to total water immersion situations.
- Do not use as a deck seam sealant.
- **Do not use for bonding inorganic glass.**

**WARNING: IRRITANT, SENSITIZER.** Contains 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (CAS:68515-49-1), 1,6-Bis-((2,2-dimethyl-3-lauroyloxy-propylidene)-amino)-hexane (CAS:613222-52-9), and titanium dioxide (CAS:13463-67-7). May cause eye/respiratory tract irritation. May cause allergic skin reaction after prolonged contact. May cause gastrointestinal disturbance if swallowed. **WARNING!** This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Further information available at:  
[www.sikausa.com](http://www.sikausa.com)

Sika Corporation  
Industry Division  
30800 Stephenson Highway  
Madison Heights, MI 48071  
USA  
Tel. 248 577 0020  
Fax 248 577 0810



## HMIS

|                     |    |
|---------------------|----|
| Health              | *2 |
| Flammability        | 1  |
| Reactivity          | 0  |
| Personal Protection | C  |

## First Aid Measure

**Eyes** – Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin** – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** – Remove to fresh air. **Ingestion** – Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

## Further Information

Copies of the following publications are available on our website [www.sikausa.com](http://www.sikausa.com):

- Material Safety Data Sheets
- Product Data Sheet

## In case of emergency call:

**Chemtrec: 800-424-9300**  
**International: 703-527-3887**

## Health and Safety Information

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **KEEP CONTAINER TIGHTLY CLOSED**
- **FOR PROFESSIONAL USE ONLY**

## Packaging Information

|           |                 |
|-----------|-----------------|
| Cartridge | 10.1 oz (300ml) |
|-----------|-----------------|

## Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

## Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles / gloves / clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and laundry before reuse.

## Clean Up

Use personal protective equipment (chemical resistant gloves / goggles / clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

## Limited Material Warranty

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS 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.**

## Legal Notes/Disclaimer

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at [www.sikausa.com](http://www.sikausa.com) or by calling 201-933-8800.

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

Further information available at:  
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Sika Corporation  
Industry Division  
30800 Stephenson Highway  
Madison Heights, MI 48071  
USA  
Tel. 248 577 0020  
Fax 248 577 0810

