

# Sikaflex® -201 US

## General Purpose Polyurethane Sealant

### Technical Product Data (typical values)

Chemical base	1-C polyurethane
Color	White, Tan, Aluminum Gray, Bronze
Cure mechanism	Moisture Cured
Density	11.8 lb/gal
Application temperature <sup>2</sup>	40°F to 110°F
Tack free time <sup>1</sup>	3 hours
Curing speed	(see diagram 1)
Shore A-hardness (ASTM D 2240)	38
Tensile strength (ASTM D 412)	175 psi
Elongation at break (ASTM D 412)	550%
Tear strength (ASTM D 624)	55 lb/in
Tensile lap shear strength (ASTM D 1002)	130 psi
Service temperature	-40°F to 190°F
Maximum expansion/contraction	+/-25% average joint width
Shelf life (storage below 80°F (25°C))	12 months Cartridge & Unipacs 6 months Pail & Drum

<sup>1</sup> 73°F (23°C) / 50% r.h. <sup>2</sup> refers to ambient temperature of substrates. For optimum application, Sikaflex®-201US should be conditioned to 70° - 80°F before use.

### Description

Sikaflex®-201 US is a one-component, flexible, polyurethane-based, non-sag elastomeric sealant system capable of +/-25% joint movement. AAMA 808.3-92 approved for exterior perimeter sealing compounds. Meets ASTM-C920 Type S, Grade NS, class 25. Federal specification TT-S-00230C is superseded by ASTM C920.

### Product Benefits

- Excellent adhesion - bonds to most common construction materials without a primer. Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- Good resistance to aging and weathering.
- Fast skin time helps prevent dirt pick up.
- Non-staining.
- May be painted. Pretesting is essential.
- NSF certified for drinking water system component use (NSF/ANSI STANDARD 61).
- NSF registered for use on surfaces with the possibility of incidental food contact. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program.

### Areas of Application

- Sealing interior and exterior joints, seams and gaps in many applications including HVAC, metal buildings, tanks and grain bins, window perimeters and many other industrial applications.
- Sealing of exposed and concealed joints in aluminum, steel, coated metals, wood and other substrates.

Industry



## Cure Mechanism

Sikaflex®-201 US cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the reaction proceeds more slowly. See diagram 1.

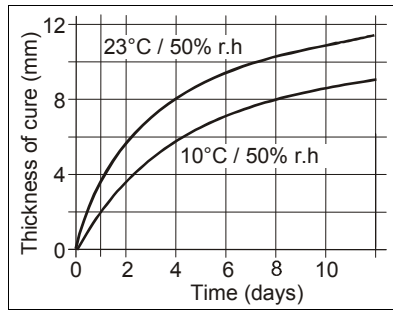


Diagram 1: Curing speed Sikaflex®-201 US

## Chemical Resistance

Sikaflex®-201 US is resistant to fresh water, seawater, limewater, sewage effluent, dilute acids and dilute caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids, concentrated caustic solutions or solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request. Contact the Technical Service Department of Sika Industry at 888-832-7452.

## Method of Application

### Surface preparation

Surfaces must be clean, dry and free from all traces of grease, oil and dust. As a rule, the substrates must be prepared in accordance with the instructions given in the current Sika Primer Chart available at [www.sikaindustry.com](http://www.sikaindustry.com). Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452.

### Application

Recommended application temperatures: 40°F to 110°F. For cold weather application, store units at approximately 70°F; remove just prior to using. Make sure joint is frost free. Cut tip of plastic nozzle to joint size. Puncture air tight seal. Install with hand or power operated caulking gun. Suitable for use in manufacturing environments using industry standard industrial pump equipment. For advice on selecting and setting up a suitable pump system please contact the System Engineering

Department of Sika Industry at 888-832-7452.

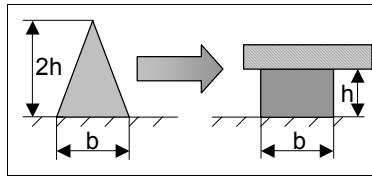


Figure 1: Recommended bead configuration

## Tooling and finishing

Tooling and finishing must be carried out within the tack free time of the sealant. To facilitate tooling, wet pointing tool or finger with compatible finishing agent. We recommend the use of Sika® Slick. Other finishing agents or lubricants must be tested for suitability/compatibility.

## Removal

Uncured Sikaflex®-201 US 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 should be washed immediately using a suitable industrial hand cleaner and water. Strictly follow solvent manufacturer's instructions for use and warnings. Do not use solvents on skin!

## Overpainting

Sikaflex®-201 US can be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. Sikaflex®-201 US 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 may impair the elasticity of the sealant and lead to cracking of the paint film with time.

## Limitations

- Do not apply to substrates that are below 40°F (5°C) or above 110°F (43°C).
- Do not apply on wet surfaces or through standing water.
- Do not apply over silicones or in the presence of curing silicones.
- Contact with alcohol or alcohol-containing solvents will prevent cure.

**WARNING: IRRITANT, SENSITIZER.** Contains Polyisocyanate Prepolymer (Mixture), Xylene (CAS 1330-20-7). Causes eye irritation. May cause skin/respiratory

irritation. May cause skin and/or respiratory sensitization after prolonged contact. May be harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Headaches and dizziness may result. **Deliberate misuse by inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.**

## HMIS

Health	*2
Flammability	1
Reactivity	0
Personal Protection	C

## First Aid Measures

**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 homepage [www.sikaindustry.com](http://www.sikaindustry.com).  
 - Material Safety Data Sheets  
 - Technical Data Sheet  
 - Sika Primer Chart

**In case of emergency call:**  
**Chemtrec: 800-424-9300**  
**International: 700-527-3887**

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**

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

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## Packaging Information

Cartridge	10.3 fl. oz.
Unipac	20 fl. oz.
Pail	4.5 gal
Drums	50 gal

## Handling And Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant gloves/goggles/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, remove spilled or excess product and place in a suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

## Warranty

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).

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which are available at [www.sikacorp.com](http://www.sikacorp.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.sikaindustry.com](http://www.sikaindustry.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 Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

## 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 Technical 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.**

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