

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	product 40°F to 110°F
Tack free time ¹	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 (27°C))	12 months Cartridge & Unipacs 6 months Pail & Drum

¹) 73°F (23°C) / 50% r.h.

Description

Sikaflex®-201US 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 Federal specification TT-S-00230C is superseded by ASTM C920.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 a variety of substrates without primer.
- Highly elastic and durable.
- Non-staining, exceptional cut and tear resistance.
- May be painted. Pre-testing is essential.
- Good resistance to weathering and aging.
- NSF certified for drinking water and incidental food contact.

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.

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.

Industry



Cure Mechanism

Sikaflex®-201US 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.

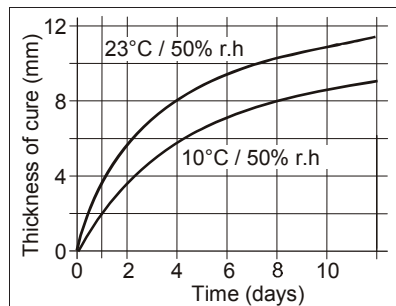


Diagram 1: Curing speed Sikaflex®-201 US

Chemical Resistance

Sikaflex®-201US 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.

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

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.

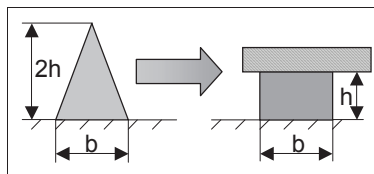


Figure 1: Recommended bead configuration

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®-201US 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®-201US can be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. Sikaflex®-201US should not be exposed to baking temperatures until it has attained full cure. 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 or above 110°F.
- 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: SENSITIZER.

Polyisocyanate (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.**

IRRITANT, Contains Prepolymer

Certified to the NSF/ANSI Standard 61 for potable water.

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 website www.sikaindustry.com.

- Material Safety Data Sheets
- Product Data Sheet
- Sika Primer Chart

In case of emergency call:

Chemtrec: 800-424-9300

International: 703-527-3887

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

Packaging Information

Cartridge	300 ml
Unipac	600 ml
Pail	4.5 gal
Drums	50 gal

Value Basis

All technical data stated in this Product Data Sheet are based on 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 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 launder 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.

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

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 Product Data Sheet, product label and Material Safety Data Sheet which are available at

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.

