Product Data Sheet
Version 10/15/2014

Sikaflex®-201 US

General Purpose Polyurethane Sealant

Technical 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	White, Tan, Aluminum Gray, MB Bronze, Deep Bronze, Black, Limestone
Cure mechanism	Moisture Cured
VOC (EPA Method 24)	40 g/l
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
Movement Accommodation (ASTM C719)	+/-25%
Shelf life (storage below 77°F (25°C))	12 months Cartridge & Unipacs 6 months Pail & Drum

[1)] 73°F (23°C) / 50% r.h.

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.

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 registered, Proprietary Substances and Nonfood Compounds (aluminum gray, black, and white).

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®-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)

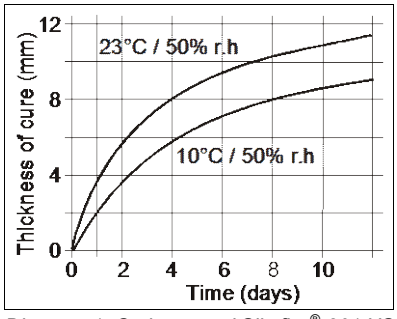

Diagram 1: Curing speed Sikaflex®-201 US

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 tsmh@us.sika.com.

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.sikausa.com. Advice on specific applications is available from the Technical Service Department of Sika Industry at tsmh@us.sika.com.

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 tsmh@us.sika.com.

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 soap solution. Do not use alcohol or alcohol-containing products.

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. 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.

Danger

Contains: titanium dioxide (CAS: 13463-67-7), xylene (CAS: 1330-20-7), ethylbenzene (CAS: 100-41-4), Quartz (SiO2) (CAS: 14808-60-7), aromatic polyisocyanate (CAS: 53317-61-6), Carbon black (CAS: 1333- 86-4), 4, 4'-methylenediphenyl diisocyanate (CAS: 101-68-8). May cause an allergic skin reaction. May causeallergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. WARNING! This product contains a chemical known in the State of California to cause cancer. WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

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

HMIS

Health	*3
Flammability	0
Reactivity	0
Personal Protection	X

First Aid Measures

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention.

Further Information

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related

Further information available at:
www.sikausa.com

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data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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

Packaging Information

Cartridge	10.3 fl-oz
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

Handling:

- Do not breathe vapors or spray mist.
- Avoid exceeding the given occupational exposure limits
- Do not get in eyes, on skin, or on clothing.
- For personal protection review product SDS
- Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Smoking, eating and drinking should be prohibited in the application area.
- Follow standard hygiene measures when handling chemical products.

Conditions for safe storage:

- Prevent unauthorized access.
- Store in original container.
- Keep container tightly closed in a dry and well-ventilated place.
- Observe label precautions.
- Store in accordance with local regulations.

Store product in tightly sealed containers in a cool, dry well-ventilated area at temperatures between 40°F and 95°F is acceptable away from ignition sources. Storage temperature of < 77°F is most highly recommended to ensure maximum shelf life.

Clean Up

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Keep in suitable, closed containers for disposal.

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 EXPRESS OR IMPLIED 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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Legal Notes/Disclaimer

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Further information available at:
www.sikausa.com

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