

Sikaflex® -201 US

General Purpose Polyurethane Sealant

Typical Product Data

Chemical base		1-C polyurethane
Color (CQP ¹ 001-1)		White, Tan, Aluminum Gray, MB Bronze, Deep Bronze, Black, Limestone
Cure mechanism		Moisture Cured
Density (uncured)		11.8 lb/gal
Application temperature	ambient	40°F to 110°F
Skin time ² (CQP 019-1)		3 hours
Curing speed (CQP 049-1)		(see diagram 1)
Shore A-hardness (CQP 023-1 / ISO 868)		38
Tensile strength (CQP 036-1 / ISO 37)		175 psi
Elongation at break (CQP 036-1 / ISO 37)		550%
Tear propagation resistance (CQP 045-1 / ISO 34)		55 lb/in
Tensile lap-shear strength (CQP 046-1)		130 psi
Service temperature		-40°F to 190°F
Movement Accommodation (ASTM C 719)		+/-35%
Shelf life (storage below 77°F (25°C))	cartridge / unipack pail / drum	12 months 6 months

¹⁾ CQP = Corporate Quality Procedure

²⁾ 77°F (25°C) / 50% r.h.

Description

Sikaflex®-201 US is a one-component, flexible, polyurethane-based, non-sag elastomeric sealant system capable of +/-35% joint movement. AAMA 808.3 verified for exterior perimeter sealing compounds. Meets ASTM-C920 Type S, Grade NS, Class 35.

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.

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, label and Safety Data Sheet, which are available on request at tsmh@us.sika.com. Nothing contained in any Sika 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 Data Sheet, label and Safety Data Sheet prior to product use.



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)

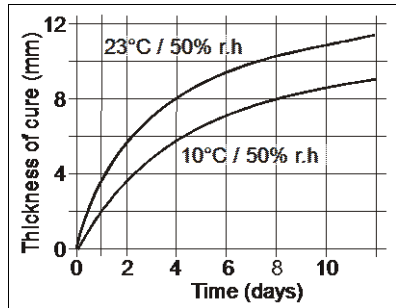


Diagram 1: Curing speed Sikaflex®-201 US

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.

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 Pre-Treatment Chart for Polyurethanes available at www.sikausa.com.

Application

Recommended application temperature is 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.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant. To facilitate tooling, wet pointing tool or finger with Sika Slick®. 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.

Further Information

Advice on specific applications will be given on request. To contact Sika Corporation's Industry Technical or Systems Engineering Departments please send an email to tsmh@us.sika.com. Copies of the following publications are available on our website www.sikausa.com:

- Safety Data Sheets
- Product Data Sheets
- Sika® Pre-Treatment Chart for Polyurethanes

Packaging Information

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

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

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

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.

Further information available at:
www.sikausa.com

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

