

Sikaflex® -211 US

Multi Purpose General Sealant

Typical Product Data

Chemical base	1-C polyurethane
Color	White, Gray
Cure mechanism	Humidity Curing
Density (uncured)	12.2 lb/gal
Non-sag properties	Good
Application temperature product	40°F - 104°F (5°C - 40°C)
Tack free time ¹ (CQP 019-1)	40 min
Curing speed	(see diagram 1)
Shore A-hardness (ASTM D 2240)	30
Movement accommodation factor (ASTM C 719)	+/- 25%
Elongation at break (ASTM D 412)	550%
Tensile-strength (ASTM D 412)	115 psi
Service temperature permanent	-40°F - 190°F (-40°C - 88°C)
Shelf life (storage below 77°F (25°C))	9 months

¹⁾ 73°F (23°C) / 50% r.h.

Description

Sikaflex® -211 US is a one-component non-sag elastomeric, high performance purpose built interior/exterior sealant that cures on exposure to atmospheric humidity to a tough, durable, flexible seal with good weatherability system capable of +/-25% joint movement. Sikaflex® -211 US is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the Responsible Care Program.

Product Benefits

- Excellent adhesion – bonds to a wide variety of substrates without surface treatments/primers
- Highly elastic – cures to a tough, durable, flexible consistent seal
- Good weatherability
- Excellent gunnability and tooling characteristics
- Can be overpainted
- Exceptional cut and tear resistance
- Good non sag characteristics
- Short cut off string
- Low shrinkage

Areas of Application

- Sealing exterior and interior lap seams, exposed and concealed joints and rivet seams in transportation and industrial applications
- Bonds well to a wide variety of substrates and is suitable for creating a permanent elastic seal. Typical substrates: aluminum, steel, coated metals, wood, metal primers and paint coating (2-c systems), painted plastics and other substrates.
- Seek manufacturer's advice before using on transparent and pigmented materials that are prone to stress cracking.

Industry



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®-211 US cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram).

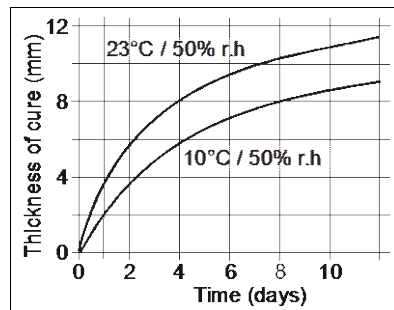


Diagram 1: Curing speed Sikaflex®-211 US

Chemical Resistance

Sikaflex®-211 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 and 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 Pre-Treatment Chart.

Application

Recommended application temperatures: 40°F to 104°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.

Tooling and finishing

Tooling and finishing must be carried out within the tack free time of the sealant. Finishing agents or lubricants must be tested for suitability/compatibility.

Removal

Uncured Sikaflex®-211 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. Strictly follow solvent manufacturer's instructions for use and warnings. Hands and exposed skin should be washed immediately using a suitable industrial hand cleaner and water. **Do not use solvents!**

Overpainting

Sikaflex®-211 US can be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. Sikaflex®-211 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.

Further Information

To contact Sika Corporations' Technical Services Department please send an e-mail to tsmh@us.sika.com.

Copies of the following publications are available on request:

- Safety Data Sheets
- Sika Pre-Treatment Charts

Packaging Information

Cartridge	300 ml
Unipack	600 ml

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests only. 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 Corporation 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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Sika Corporation
Industry Division
30800 Stephenson Highway
Madison Heights, MI 48071
USA
Tel. 248 577 0020
Fax 248 577 0810
www.sikausa.com

