Industry

Sikaflex®-201

General Purpose Polyurethane Sealant

Technical Product Data

Chemical base		1-C polyurethane
Colour		White, Aluminum Grey, Black
Cure mechanism		Moisture Cured
Density		1.4 kg/L
Application temperature[2)]		5°C to 43°C
Tack free time[1)]		3 hours
Curing speed		(see diagram 1)
Shore A-hardness (ASTM D 2240)		38
Tensile strength (ASTM D 412)		1.2 N/mm^2
Elongation at break (ASTM D 412)		550%
Tear strength (ASTM D 624)		9.6 N/mm
Tensile lap-shear strength (ASTM D 1002)		0.9 N/mm^2
Service temperature		-40°C to 88°C
Maximum expansion/contraction		+/-25% average joint width
Shelf life (storage below 25°C)	Cartridge & Sausage Pail & Drum	12 months 6 months

[1)] 23°C / 50% r.h.

[2)] refers to ambient temperature of substrates. For optimum application, Sikaflex®-201 should be conditioned between 21°C and 27°C before use.

Description

Sikaflex®-201 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.

Product Benefits

- Excellent adhesion - bonds to most common construction materials without a primer.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- Good resistance to ageing and weathering.
- Fast skin time helps prevent dirt pick up.
- Non-staining.
- May be painted. Pretesting is essential.
- UL® 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, 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 professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry

Cure Mechanism

Sikaflex®-201 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.

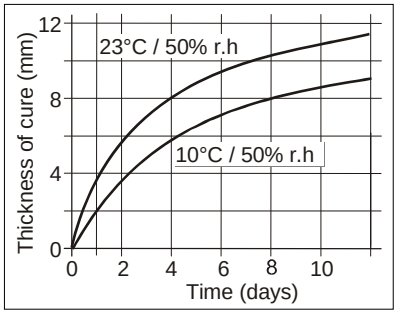

Diagram 1: Curing speed Sikaflex®-201

Chemical Resistance

Sikaflex®-201 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 Canada for more information.

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.sika.ca.

Application

Recommended application temperatures: 5°C to 43°C. For cold weather application, store units at approximately 21°C; 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 technical service department of Sika Canada.

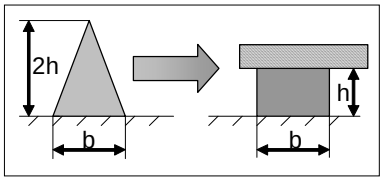

Figure 1: Recommended bead configuration

Tooling and finishing

Tooling and finishing must be carried out within the tack free time of the sealant. To facilitate tooling, wet tool or finger with compatible finishing agent. We recommend the use of Sika® Tooling Agent N. Other finishing agents or lubricants must be tested for suitability/compatibility. Do not use alcohol or alcohol-containing products.

Clean up

Uncured Sikaflex®-201 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 can be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. Sikaflex®-201 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

Copies of the following publications are available on request:

- Sika Primer Chart
- Material Safety Data Sheet.

Packaging Information

Cartridge	300 mL
Sausage	600 mL

Value Basis

All technical data stated in this Product Data Sheet and laboratory test based. Current measured values may vary due to factors beyond our control.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance.

All Product Data Sheets and Material Safety Data Sheets are also available on our web site.

Legal Notes

Further information available at:
www.sika.ca

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