Sikaflex®-211 SW
Polyurethane sealant capable of application by swirl spray

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical base</td>
<td>1-component polyurethane</td>
</tr>
<tr>
<td>Color (CQP001-1)</td>
<td>Gray</td>
</tr>
<tr>
<td>Cure mechanism</td>
<td>Moisture-curing</td>
</tr>
<tr>
<td>Density (uncured)</td>
<td>1.40 kg/l (11.7 lb/gal)</td>
</tr>
<tr>
<td>Non-sag properties</td>
<td>Good</td>
</tr>
<tr>
<td>Application temperature</td>
<td>5 – 40 °C (41 – 104 °F)</td>
</tr>
<tr>
<td>Skin time (CQP019-1)</td>
<td>35 minutes</td>
</tr>
<tr>
<td>Curing speed (CQP049-1)</td>
<td>(see diagram 1)</td>
</tr>
<tr>
<td>Shore A hardness (CQP023-1 / ISO 48-4)</td>
<td>30</td>
</tr>
<tr>
<td>Tensile strength (ASTM D412)</td>
<td>1.3 MPa (190 psi)</td>
</tr>
<tr>
<td>Elongation at break (ASTM D412)</td>
<td>650 %</td>
</tr>
<tr>
<td>Service temperature (CQP513-1)</td>
<td>-40 – 90 °C (-40 – 194 °F)</td>
</tr>
<tr>
<td>Shelf life (CQP016-1)</td>
<td>6 months</td>
</tr>
</tbody>
</table>

CQP = Corporate Quality Procedure
A) 23 °C (73 °F) / 50 % r.h.  
B) stored below 25 °C (77 °F)

DESCRIPTION
Sikaflex®-211 SW is a 1-component polyurethane sealant whose thixotropy makes it suitable for application by means of a swirl spray while maintaining good sag and slump characteristics. It bonds well to a wide variety of substrates and is suitable for making permanent elastic seals.

PRODUCT BENEFITS
- Capable of application by swirl spray
- Good gap bridging and sag characteristics even after shearing
- Bonds to a wide variety of substrates, often without the need for special pre-treatment
- Can be sanded and painted
- Short cut-off string

AREAS OF APPLICATION
Sikaflex®-211 SW is a multi-purpose sealant specifically designed for applications where it is desired to dispense via a swirl spray, a method where the sealant obtains a ribbon-like appearance by use of a high speed rotational nozzle. Additionally, due to its thixotropy, Sikaflex®-211 SW can also be applied as a standard bead. Sikaflex®-211 SW is suitable on substrates such as metals, metal primers and paint coatings (2-component systems), and fiber reinforced plastics.

Seek manufacturer’s advice and perform tests on original substrates before using Sikaflex®-211 SW on materials prone to stress cracking. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.
Sikaflex®-211 SW 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 1).

Diagram 1: Curing speed of Sikaflex®-211 SW

Sikaflex®-211 SW is designed specifically to be processed with pump equipment using high speed rotating nozzles to obtain a ribbon-like appearance but can be dispensed as a bead with standard nozzles as well.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

CHEMICAL RESISTANCE
Sikaflex®-211 SW is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

METHOD OF APPLICATION
Surface Preparation
Surfaces must be clean, dry and free from grease, oil and dust.

Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. Suggestions for surface preparation may be found on the current edition of the appropriate Sika® Pre-Treatment Chart. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates.

Application
Sikaflex®-211 SW can be processed between 5 °C and 40 °C (41 °F and 104 °F) but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and process material is between 15 °C and 25 °C (59 °F and 77 °F).

Tooling and finishing
Tooling and finishing must be carried out within the skin time of the product. It is recommended using Sika® Slick. Other finishing agents must be tested for suitability and compatibility prior the use.

Removal
Uncured Sikaflex®-211 SW may 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 have to be washed immediately using a suitable industrial hand cleaner and water.

Do not use solvents on skin.

Overpainting
Sikaflex®-211 SW can be painted after formation of a skin. If the paint requires a baking process, best performance is achieved by allowing the sealant to fully cure first. 1C-PUR and 2C-acrylic based paints are usually suitable. All paints have to be tested by carrying preliminary trials under manufacturing conditions.

The elasticity of paints is usually lower than that of sealants. This could lead to cracking of the paint in the joint area.

FURTHER INFORMATION
The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:
- Safety Data Sheets
- Sika Pre-treatment Chart
- For 1-component Polyurethane
- General Guideline
- Bonding and Sealing with 1-component Sikaflex®

LEGAL DISCLAIMER
Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA’s Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or 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 label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 as set forth in the current Product Data Sheet prior to use of the SIKA product. Nothing contained in any SIKA literature or materials relieves the user of the obligation to follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

PRODUCT DATA SHEET
Sikaflex®-211 SW
Version 03.01 (04-2022), en_US
012001202110002300

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BASIS OF PRODUCT DATA
All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ENVIRONMENTAL, HEALTH AND SAFETY
For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety data. User must read the current actual Safety Data Sheets before using any products.

In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

SAFETY
ENVIRONMENTAL, HEALTH AND SAFETY

PACKAGING INFORMATION
Drums 50 gal (US)