



PRODUCT DATA SHEET

Sika® Duoflex SL

Self-levelling, polysulfide sealant

PRODUCT DESCRIPTION

Sika® Duoflex SL is a two-component, self-levelling, premium quality, polysulfide sealant ideally suited for quick application to horizontal surfaces.

WHERE TO USE

Sika® Duoflex SL may only be used by experienced professionals.

Sika® Duoflex SL is suitable for either exterior or interior use in both static and dynamic joints.

- Concrete and precast concrete joints in bridges, roadways, and warehouse floors
- Expansion and control joints in concrete floors
- Expansion joints in tile and brick flooring
- Joints in podium deck structures
- Joints within secondary containment areas
- Joints located in gas station and refueling environments

PRODUCT INFORMATION

Packaging	5.7 L (1.5 US gal) unit with both Components "A" and "B" contained in a pail; 60 units per pallet
Colour	Bronze
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged, sealed packaging
Storage Conditions	Store dry at temperatures between 4 °C and 35 °C (40 °F and 95 °F).

TECHNICAL INFORMATION

Shore A Hardness	25 – 30	(ASTM D2240)
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CHARACTERISTICS / ADVANTAGES

- Provides a tough, elastic, rubber-like seal
- Remains flexible with expansion and contraction of building component (based on good joint design)
- Stays resilient within a wide temperature range
- Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis
- Effective under constant immersion or saturated conditions, when suitably primed with Sika® Duoflex Primer-5050

APPROVALS / CERTIFICATES

- Meets ASTM C920, Type M, Grade SL, Class 25, Use I, NT, M, G, A and O

Abrasion Resistance	Excellent
Tensile Strength	1.03 – 1.38 MPa (150 – 200 psi) (ASTM D412)
Elongation at Break	500 – 550 % (ASTM D412)
Movement Capability	± 25 %
Chemical Resistance	Refer to the "Chemical Resistance Chart for Sika® Duoflex NS / SL"
Resistance to UV Exposure	Very good
Service Temperature	-40 °C to +77 °C (-40 °F to +170 °F)
Colour Stability	Very good

APPLICATION INFORMATION

Yield	Linear metre per litre (Linear feet per liter)			
	Width/Depth	6 mm (1/4 in)	10 mm (3/8 in)	13 mm (1/2 in)
6 mm (1/4 in)		24.7 (81.1)		
10 mm (3/8 in)		16.5 (54.2)	11 (35.9)	
13 mm (1/2 in)		12.3 (40.4)	8.2 (27.0)	6.2 (20.3)
19 mm (3/4 in)		8.2 (27.0)	5.5 (18.0)	4.1 (13.5)
25 mm (1 in)				3.1 (10.0)
32 mm (1 1/4 in)				2.5 (7.9)
38 mm (1 1/2 in)				2.1 (6.6)

Product Temperature	Condition material to temperatures between 4 °C and 38 °C (40 °F and 100 °F) before application. Preconditioning units to approximately 21 °C (70 °F) is necessary when working at the far ends of the application range. Move pre-conditioned units to work areas just prior to application.
Ambient Air Temperature	4 °C to 38 °C (40 °F to 100 °F)
Substrate Temperature	4 °C to 38 °C (40 °F to 100 °F)
Pot Life	1 hour
Curing Time	7 days
Tack-free time	6 hours

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Product properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- Do not use the "B" component from NS version with the "A" component for SL version, and vice versa.
- The ultimate performance of Sika® Duoflex SL depends on good joint design and proper application
- Primary and secondary immersion applications; Sika®

- Duoflex Primer-5050 must be used
- Do not apply when moisture vapour transmission exists since this can cause bubbling within the sealant
- When overcoating, an on-site test is recommended to determine actual compatibility.
- Do not use Sika® Duoflex SL on improperly prepared or contaminated surfaces.
- Do not use Sika® Duoflex SL in applications where anticipated joint movements are greater than ± 25 %.
- Do not use Sika® Duoflex SL for glazing applications.
- Do not use Sika® Duoflex SL for joints where adhesion to painted surfaces is needed. Adhesion and compatibility tests are required before proceeding.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS

provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, grease, paints, coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesion. This should be accomplished by mechanical means, such as sandblasting, abrasive grinding, etc. Bond breaker tape or backer rod must be used in bottom of joint to prevent bond.

Joint Design

Proper joint design for moving joints is 2:1 width to depth ratio, with a recommended 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. For non-moving joints, the width to depth ratio can vary.

Priming

For maximum adhesion, including in submerged or immersed applications, the use of Sika® Duoflex Primer-5050 is necessary. Contact Sika Canada Technical Service if unsure if primer is necessary. A uniform glossy sheen after priming indicates adequate primer. Some surfaces, such as porous concrete, may require two (2) coats. Primer must be tack-free before applying sealant, typically two (2) hours on concrete and four (4) hours on steel at 25 °C (77 °F). Sealant must be applied same day as primer. Primed areas left overnight should be re-primed.

MIXING

Pour entire contents of Component B into pail of Component A and mix using a low speed drill (100–300 rpm) fitted with a mixing paddle. Mix for at least for five (5) minutes to achieve uniform colour and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing.

Remark: Mixed material must be used within the pot life parameters given. Do not attempt to thin or use material that has started to harden. The individual components are formulated, manufactured and shipped to be used together.

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

Cold Weather Mixing: When mixing material at temperatures < 5 °C (< 50 °F), do not force the mixing paddle to the bottom of the pail. After adding Component B in Component A, mix the top 1/2 to 3/4 of the pail in the first minute of mixing. After scraping down the sides of the pail, mix again for another minute. The paddle should reach the bottom of the pail between the first and second minute of mixing. Scrap down the sides of the pail a second time and then mix for an additional 2–3 minutes until sealant is well blended.

APPLICATION METHOD / TOOLS

Sika® Duoflex SL should be applied into joints when joint slot is at mid-point of its designed expansion and contraction.

Apply Sika® Duoflex SL only to clean, sound, dry, and frost-free substrates. To place, load directly into bulk gun or use a follower plate loading system. Place nozzle of gun into end of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps air. On floor joints, properly recess the sealant to avoid material over the surface plane. Dry tool as required.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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