



PRODUCT DATA SHEET

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RIGID JOINTS SEALANTS

Sika® Loadflex®-524 EZ

LOAD-BEARING, SEMI-RIGID, POLYUREA CONTROL JOINT FILLER

Description	Sika® Loadflex®-524 EZ is a technologically advanced, two-component, quick-setting, semi-rigid, solvent-free, self-leveling control joint filler.
Where to Use	<ul style="list-style-type: none"> Sika® Loadflex®-524 EZ is recommended for use as filler for static interior, horizontal saw cuts or preformed control and construction joints. Typically installed in facilities such as warehouses and industrial plants, where such joints are subject to load-bearing conditions involving wear and impact. Sika® Loadflex®-524 EZ is also used for repairing interior concrete slabs that have experienced random cracking due to shrinkage.
Advantages	<ul style="list-style-type: none"> Quick-set formula reduces down time. Excess material can be shaved off smooth as early as 15 minutes or as late as 24 hours after placement at 23 °C (73 °F). Cures at temperatures down to -25 °C (-13 °F). Hard, load-bearing filler designed to withstand industrial traffic. Provides even load transfer across floor joints, thereby protecting joint edges from breaking down under traffic. Two-components, easy to use, 1:1 mix ratio. Improved consistency to allow easier dispensing and reduced blockage of equipment. Seals joints from collecting dirt, dust and debris. Improved moisture sensitivity. Approved by the Canadian Food Inspection Agency.

Technical Data																																															
Packaging	37.8 L (10 US gal.) unit 600 mL (20 US fl. oz) side-by-side, coaxial cartridges, 12 per case.																																														
Colours	37.8 L (10 US gal.) units: Grey and RAL 3010 Brick (RAL 3010 Brick, special order with min. quantity) 600 mL (20 fl oz) cartridges: Grey																																														
Estimated Yield	Coverage rates for a 37.8 L (10 US gal.) unit (Sika® Loadflex®-524 EZ should be installed to the full depth of the joint)																																														
	<table border="1"> <thead> <tr> <th colspan="2" rowspan="2">Joint depth</th> <th colspan="4">Joint width</th> </tr> <tr> <th colspan="2">3 mm (1/8 in)</th> <th colspan="2">6 mm (1/4 in)</th> </tr> <tr> <th>mm</th> <th>(in)</th> <th>m</th> <th>(ft)</th> <th>m</th> <th>(ft)</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>(1)</td> <td>500</td> <td>1640</td> <td>250</td> <td>820</td> </tr> <tr> <td>32</td> <td>(1 1/4)</td> <td>388</td> <td>1273</td> <td>193</td> <td>633</td> </tr> <tr> <td>38</td> <td>(1 1/2)</td> <td>327</td> <td>1072</td> <td>162</td> <td>531</td> </tr> <tr> <td>44</td> <td>(1 3/4)</td> <td>280</td> <td>918</td> <td>140</td> <td>459</td> </tr> <tr> <td>51</td> <td>(2)</td> <td>242</td> <td>794</td> <td>121</td> <td>397</td> </tr> </tbody> </table>	Joint depth		Joint width				3 mm (1/8 in)		6 mm (1/4 in)		mm	(in)	m	(ft)	m	(ft)	25	(1)	500	1640	250	820	32	(1 1/4)	388	1273	193	633	38	(1 1/2)	327	1072	162	531	44	(1 3/4)	280	918	140	459	51	(2)	242	794	121	397
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Shelf Life	Note: The above chart is a theoretical guide only. Allowance must be made for surface profile, wastage, etc. 1 year in original, unopened packaging. Store between 15 and 32 °C (59 and 89 °F). Condition product between 18 and 30 °C (65 and 86 °F) before using.																																														
Mix Ratio	A:B = 1:1 by volume																																														
Properties at 23 °C (73 °F) and 50 % R.H.																																															
Pot Life	20 s																																														
Working Time	10 s																																														
Modulus of Elasticity ASTM D638	45 MPa (6525 psi)																																														
Tensile Strength ASTM D638	4.5 MPa (652 psi)																																														
Elongation at Break ASTM D638	110 %																																														
Bond Strength	> 1.5 MPa (218 psi)																																														
Absorption ASTM D570	0.30 %																																														
Shore D Hardness ASTM D2240	30 - 32																																														
Shore A Hardness ASTM D2240	80 - 85																																														
Density	Part A 1.11 g/mL Part B 1.10 g/mL A + B 1.1 g/mL (mixed)																																														
Deformation MIL-D-24613 mod.	6.9 MPa (1000 psi) 43.9 %																																														
Viscosity	Part A 2000 cps Part B 1000 cps																																														
Cure Time	Light traffic: 15 min at 23 °C (73 °F) 60 min at -25 °C (-13 °F) 30 min at 23 °C (73 °F) 2 h at -25 °C (-13 °F) Full traffic: 30 min at 23 °C (73 °F) 2 h at -25 °C (-13 °F)																																														
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.																																															

HOW TO USE

Surface Preparation Surface must be clean, sound and dry. Remove all surface contaminants i.e. dust, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials that might prevent bond. Ideally, surface preparation should be accomplished by mechanical means.

Mixing Pre-mix each component thoroughly before using.
Sika® Loadflex®-524 EZ must be machine-mixed/-dispensed using a 1:1 ratio, plural component pump and 30 element static mixing nozzle.
Note: Sika® Loadflex®-524 EZ sets too quickly to allow hand mixing.

Application Dispense Sika® Loadflex®-524 EZ directly from the static mixing nozzle into joints or cracks until the entire void is filled. Maintain a steady flow of material to eliminate overlapping as this may cause bubbling within the material. Joints should be slightly over filled and shaved level with the adjacent joint edges to facilitate a smooth appearance. For best results, shave the over-fill between 15 minutes to 24 hours after placing, when cured at 23 °C (73 °F).
Cartridge: Product gels in static mixer after 15 seconds. Once started, do not stop the extrusion process. Additional static mixers are available from your supplier, if needed.

Clean Up Clean all tools and equipment immediately after use with Sika® Urethane Thinner and Cleaner. Once hardened, material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot, soapy water or use Sika® Hand Cleaner towels.

Limitations

- For best results, Sika® Loadflex®-524 EZ should be installed 120 days or longer after initial concrete placement, when the majority of concrete shrinkage has occurred and control joints are static. Refer to the relevant CSA A23.1 standard.
- Do not hand-mix Sika® Loadflex®-524 EZ; mechanical-mix only.
- Substrate temperature should be -25 °C (-13 °F) minimum and rising at time of application.
- For interior, horizontal use only.
- For best results, materials should be conditioned to between 18 and 30 °C (65 and 86 °F).
- Do not thin. Solvents may prevent proper cure.
- Sika® Loadflex®-524 EZ is a vapour barrier after cure.
- Not for sealing cracks under hydrostatic pressure.
- Not to be used in moving cracks or joints which are designed for or exhibit movement.
- Not recommended for use as joint filler under resilient flooring.
- Do not over-coat Sika® Loadflex®-524 EZ with polymer flooring.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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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