



PRODUCT DATA SHEET

Sika® Loadflex®-524 LV

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

PRODUCT DESCRIPTION

Sika® Loadflex®-524 LV is a technologically advanced, two-component, quick-setting, semi-rigid, solvent-free, self-levelling control joint filler

WHERE TO USE

- Sika® Loadflex®-524 LV 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 LV is also used for repairing interior concrete slabs that have experienced random cracking due to shrinkage

CHARACTERISTICS / ADVANTAGES

- 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.

PRODUCT INFORMATION

Product Data Sheet
Sika® Loadflex®-524 LV
October 2022, Version 01.09
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CSC MasterFormat®	07 92 16 RIGID JOINT SEALANTS
Packaging	37.8 L (10 US gal.) unit.
Shelf Life	1 year in original, unopened packaging.
Storage Conditions	Store between 15 and 32 °C (59 and 89 °F). Condition product between 18 and 30 °C (65 and 86 °F) before using
Colour	37.8 L (10 US gal.) units: Grey and RAL 3010 Brick (RAL 3010 Brick, special order with min. quantity)
Density	Part A = 1.11 g/mL. Part B = 1.10 g/mL. A + B = 1.1 g/mL (mixed)
Viscosity	Part A 2000 cps Part B 400-700 cps

TECHNICAL INFORMATION

Shore A Hardness	80-85	(23 °C (73 °F)) 50 % R.H.) (ASTM D-2240)
Shore D Hardness	30-32	(23 °C (73 °F)) 50 % R.H.) (ASTM D-2240)
Tensile Strength	4.5 MPa (652 psi)	(23 °C (73 °F)) 50 % R.H.) (ASTM D-638)
Modulus of Elasticity in Tension	45 MPa (6525 psi)	(23 °C (73 °F)) 50 % R.H.) (ASTM D-638)
Tensile Stress at Specified Elongation	Deformation 6.9 MPa (1000 psi) 43.9 %	(MIL-D-24613 mod.)
Elongation at break	110 %	(23 °C (73 °F)) 50 % R.H.) (ASTM D-638)
Pull-Off Strength	Bond Strength > 1.5 MPa (218 psi)	
Water Absorption	0.30 %	ASTM D570

APPLICATION INFORMATION

Mixing Ratio	A:B = 1:1 by volume					
Yield	Coverage rates for a 37.8 L (10 US gal.) unit (Sika® Loadflex®-524 LV should be installed to the full depth of the joint)					
	<u>Joint width</u>					
	<u>Joint width</u>		3mm(1/8")		6mm(1/4")	
	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
	Note: The above chart is a theoretical guide only. Allowance must be made for surface profile, wastage, etc.					
Pot Life	35-40 seconds					
Curing Time	Light traffic: 15 min at 23 °C (73 °F), 60 min at -25 °C (-13 °F) Full traffic: 30 min at 23 °C (73 °F), 2 hours 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.					
Application Time	40 seconds					

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.

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

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-stir component B thoroughly by hand before using. Do not mix by mechanical means. Do not pre-stir component A. Sika® Loadflex®-524 LV must be machine-mixed/-dispensed using a 1:1 ratio, plural component pump and 30 element static mixing nozzle. Note: Sika® Loadflex®-524 LV sets too quickly to allow hand mixing.

APPLICATION METHOD / TOOLS

Dispense Sika® Loadflex®-524 LV 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).

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)

CLEAN UP

Clean all tools and application equipment immediately after use with Sika® Urethane Thinner and Cleaner. Once hardened, material can only be removed mechanically.

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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