

PRODUCT DATA SHEET

Sika® Loadflex-524 EZ

TWO COMPONENT, SEMI RIGID, POLYUREA CONTROL JOINT FILLER

PRODUCT DESCRIPTION

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

USES

- 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.

CHARACTERISTICS / ADVANTAGES

- Quick-set formula reduces down time.
- Material can be shaved off smooth as early as 5 minutes or as late as 24 hours after placement at 73 °F (23 °C).
- Cures at temperatures down to -13 °F (-25 °C).
- 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.
- Excellent moisture sensitivity.
- For use in Food Plants where floor surfaces must be kept clean.

PRODUCT INFORMATION

Packaging	10 US gallon unit (Part A 5 gal; Part B 5 gal) 12 x 20 oz. side-by-side cartridges (10 oz. A; 10 oz. B)	
Color	Gray	
Shelf Life	12 months in original, unopened packaging.	
Storage Conditions	Store between 59 and 89 °F. Condition product between 65 and 86 °F before using.	
Density	Part A	1.11 g/mL
	Part B	1.10 g/mL
	Part A+B	1.1 g/mL
Viscosity	Part A 2000-2500 cps Part B 1000-1600 cps	

TECHNICAL INFORMATION

Shore A Hardness	80-85	(73 °F (23 °C) 50 % R.H.) (ASTM D-2240)
Shore D Hardness	30-32	(73 °F (23 °C) 50 % R.H.) (ASTM D-2240)
Tensile Strength	652 psi	(73 °F (23 °C) 50 % R.H.) (ASTM D-638)
Tensile Modulus of Elasticity	6525 psi	(73 °F (23 °C) 50 % R.H.) (ASTM D-638)
Elongation at Break	110 %	(73 °F (23 °C) 50 % R.H.) (ASTM D-638)
Tensile Adhesion Strength	Bond Strength > 218 psi	
Elastic Recovery	Deformation 6.9 NPa (1000 psi) 43.9%	(MIL-D-24613 mod.)
Water Absorption	0.30 %	(ASTM D-570)

APPLICATION INFORMATION

Mixing Ratio	A:B = 1:1 by volume	
Coverage	Coverage for 10 gallon kit at joint width of:	
	Joint Depth/Joint Width	1/8 in (3.8 mm) 1/4 in (6 mm)
	1 in (25 mm)	1,540 ft (497 m) 770 ft (248 m)
	1 1/4 in (32 mm)	1,232 ft (397 m) 616 ft (199 m)
	1 1/2 in (38 mm)	1,027 ft (331 m) 513 ft (166 m)
	1 3/4 in (44 mm)	880 ft (284 m) 440 ft (142 m)
	2 in (51 mm)	770 ft (248 m) 385 ft (124 m)
Coverage	Coverage for 20 oz. Cartridge at joint width of:	
	Joint Depth/Joint Width	1/8 in (3.8 mm) 1/4 in (6 mm)
	1 in (25 mm)	24.1 ft (7.8 m) 12 ft (3.9 m)
	1 1/4 in (32 mm)	19.3 ft (6.2 m) 9.6 ft (3.1 m)
	1 1/2 in (38 mm)	16 ft (5.2 m) 8 ft (2.6 m)
	1 3/4 in (44 mm)	13.8 ft (4.4 m) 6.9 ft (2.2 m)
	2 in (51 mm)	12 ft (3.9 m) 6 ft (1.9 m)
	Note: The above charts are theoretical guides only. Allowance must be made for surface profile, wastage, etc. Sika® Loadflex-524 EZ should be installed to the full depth of the joint.	
Pot Life	20 sec.	73 °F (23 °C) 50 % R.H.
Cure Time	Light traffic	15 min at 73 °F (23 °C) 60 min at -13 °F (-25 °C)
	Full traffic	30 min at 73 °F (23 °C) 2 hrs at -13 °F (-25 °C)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surface must be clean, sound and dry. Remove all surface contaminants including without limitation contaminants such as dust, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials that might prevent bond. Preferred methods of joint cleaning include using a dustless saw with diamond blade, with blade slightly wider than the joint so both

sides of joint are cleaned or sand blasting. If unusual conditions are present contact Sika Technical Services.

MIXING

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

APPLICATION METHOD / TOOLS

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 73 °F (23 °C). 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. Sika® Loadflex-524 EZ can be used to seal non-moving (static) cracks. Cracks must be saw cut to a minimum 1/2 inch depth to achieve sufficient bond area.

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 or ACI 302.1 standards.
- Substrate temperature should not be less than -13 °F (-25 °C) and rising at time of application.
- For interior, horizontal use only.
- For best results, materials should be conditioned to between 65 and 86 °F (18 and 30 °C).
- Do not thin. Solvents may prevent proper cure.
- Sika® Loadflex-524 EZ is a vapor 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 or under polymer flooring. Contact your local Sika Sales Representative or the Technical Service Department for further information.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LOCAL RESTRICTIONS

See Legal Disclaimer.

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 related 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.

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LEGAL DISCLAIMER

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