



# 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.

### WHERE TO USE

- 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 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.
- Excellent moisture sensitivity.
- For use in Food Plants where floor surfaces must be kept clean.

### PRODUCT INFORMATION

|                    |  |           |
|--------------------|--|-----------|
| CSC MasterFormat®  | 09 92 17   |           |
| Packaging          | 12 x 600ml (20 oz.) side-by-side cartridges (300ml(10 oz.) A; 300ml(10 oz.) B)                                   |           |
| Shelf Life         | 12 months in original, unopened packaging.   |           |
| Storage Conditions | Store between 15 and 32 °C (59 and 89 °F)<br>Condition product between 18 and 30 °C (65 and 86 °F) before using. |           |
| Colour             | Gray   |           |
| 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   |           |

## 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                 | 4.49MPa(652 psi)                     | (23 °C (73 °F) 50 % R.H.) (ASTM D-638)  |
| Modulus of Elasticity in Tension | 44.98MPa(6525 psi)                   | (23 °C (73 °F) 50 % R.H.) (ASTM D-638)  |
| Elongation at Break              | 110 %                                | (23 °C (73 °F) 50 % R.H.) (ASTM D-638)  |
| Pull-Off Strength                | Bond Strength > 1.50MPa(218 psi)     |   |
| Elastic Recovery                 | Deformation 6.9 MPa (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   |                         |                           |
| Yield        | Coverage for 600ml (20 oz.) Cartridge at joint width of:  |                         |                           |
|              | <b>Joint Depth/Joint Width</b>  | <b>3.8 mm (1/8)</b>     | <b>1/4 in (6 mm)</b>      |
|              | <b>25mm (1 in)</b>  | 7.8 m (24.1 ft)         | 3.9m (12 ft)              |
|              | <b>32 mm (1 1/4 in)</b>   | 6.2 m (19.3 ft)         | 3.1m (9.6 ft)             |
|              | <b>38 mm (1 1/2 in)</b>   | 5.2m (16 ft)            | 2.6m (8 ft)               |
|              | <b>44 mm (1 3/4 in)</b>   | 4.4m (13.8 ft)          | 2.2m (6.9 ft)             |
|              | <b>51 mm (2 in)</b>   | 3.9m (12 ft)            | 1.9m (6 ft)               |
|              | 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.   | 23 °C (73 °F) 50 % R.H. |                           |
| 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 hrs at -25 °C (-13 °F)  |

## 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.

## 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 -25 °C (-13 °F) 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 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.

## 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 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 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. Sika® Loadflex-524 EZ can be used to seal non-moving (static) cracks. Cracks must be saw cut to a minimum 13mm(1/2 inch) depth to achieve sufficient bond area.

## 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](http://www.sika.ca)

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#### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
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#### Product Data Sheet

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