

Loadflex® 2

Load-Bearing, Semi-Rigid, Epoxy Control Joint Sealer

Description	Loadflex® 2 is a technologically advanced, semi-rigid, solvent-free, moisture-insensitive, self-leveling epoxy joint filler and sealer.
Where to Use	<ul style="list-style-type: none"> ■ Loadflex® 2 is recommended for use as a filler for interior, horizontal saw cut or preformed control joints in facilities such as warehouses and plants, where such joints are subject to load bearing conditions involving wear and impact. ■ Loadflex® 2 is also used for repairing interior concrete slabs that have experienced random cracking due to shrinkage.
Advantages	<ul style="list-style-type: none"> ■ Shaves easily same day. ■ Pourable. ■ Self-leveling product. ■ Supports and protects edges. ■ Shock absorbing. ■ Easy to mix 1:1 ratio. ■ Low modulus. ■ Moisture insensitive. ■ Seals joints from collecting dirt, dust and debris. ■ Meets ASTM C881 Grade 2, Classes B and C. ■ Meets USDA specifications. ■ Canadian Food Inspection Agency acceptance.

Technical Data

Packaging	7.6 L and 37.9 L (2 and 10 US gal.) units
Colour	Grey
Estimated Yield for 7.6 L (2 US gal.) unit	

Joint depth mm (in)	Joint width	
	3 mm (1/8 in) m (ft)	6 mm (1/4 in) m (ft)
25 (1)	99 (324)	45 (147)
32 (1 1/4)	76 (249)	38 (124)
38 (1 1/2)	61 (200)	30 (98)
44 (1 3/4)	53 (173)	26 (85)
51 (2)	45 (147)	23 (75)

Note: Sealant should be placed to the full depth of the saw cut.

Shelf Life	1 year in original, unopened packaging. Store between 15° - 32°C (59° - 89°F). Condition product to 18° - 30°C (65° - 86°F) before using.
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Mixing Ratio	A:B = 1:1 by volume
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Properties at 23°C (73°F) and 50% R.H.

Gel Time 60 g mass (2 oz)	
ASTM C883	30 min
Working Time	15 min
Modulus of Elasticity ASTM D695	< 620 MPa (9 x 10 ⁴ psi)
Tensile Strength ASTM D638	3.4-4.8 MPa (595 psi)
Elongation at Break ASTM D638	65-75%
Absorption ASTM D570	0.84%
Shrinkage ASTM C883	Pass
Shore D Hardness ASTM D2240	50-75
Shore A Hardness ASTM D2240	80-90
Thermal Compatibility ASTM C884	Pass



How to Use	
Surface Preparation	Surface must be clean, sound and dry. It may be dry or damp, but free of standing water. Remove surface contaminants i.e. dust, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials. Concrete: Use approved mechanical means. Steel: Use approved mechanical means.
Mixing	Pre-mix each component thoroughly. Place 1 part by volume of component A and 1 part by volume of component B into a clean pail. Mix thoroughly for 3 min with low-speed drill and Jiffy type mixer (300-450 rpm) until uniformly blended. Mix only the quantity that can be used within its gel time.
Application	Pour Loadflex® 2 into joints or cracks or use low-pressure extrusion equipment. Again, maintain a steady flow of material. Both applications require care to eliminate overlapping as this may cause bubbling within the material. Place Loadflex® 2 to the full depth of the joint or crack. For best results, shave the over-fill between 4 to 24 h after placing, when cured at 20°C (68°F).
Clean Up	Clean all tools and equipment immediately after use with Sika® Equipment Cleaner/Epoxy Thinner. Once hardened, material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot water or use Sika® Hand Cleaner.
Limitations	<ul style="list-style-type: none"> ■ For best results Loadflex® 2 should be installed 90 days or longer after initial concrete placement, when the majority of concrete shrinkage has occurred and control joints are static. Refer to CSA standard A23.1-00 section 20.2.1. ■ Substrate temperature should be 10°C (50°F) minimum and rising at time of application. ■ For interior, horizontal use only. ■ For best results, materials should be maintained between 18° - 30°C (65° - 86°F). ■ Do not thin. Solvents may prevent proper cure. ■ Loadflex® 2 is a vapour barrier after cure. ■ Not for sealing cracks under hydrostatic pressure. ■ Not to be used in moving cracks or expansion joints. ■ Not recommended for use as a joint filler under resilient flooring. Contact your Sika Technical Sales Representative.
Caution	Component A - Irritant - Prolonged contact with skin may cause irritation. Avoid eye contact. Component B - Irritant - Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer. Use of safety goggles and chemical-resistant gloves is recommended. Remove contaminated clothing. Avoid breathing vapours. Use adequate ventilation. The use of a NIOSH/MSHA organic vapour respirator is recommended. Consult product label for additional information.
First Aid	In case of skin contact, wash with soap and water. For eye contact flush immediately with plenty of water for at least 15 min. Contact a physician. For respiratory problems, transport victim to fresh air. Remove contaminated clothing and wash before re-use.

For more information, consult Sika Material Safety Data Sheet.

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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.



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