

Loadflex®

Two-Component, Epoxy-Urethane, Load-Bearing, Self-Leveling, Control Joint Filler

Description	Loadflex® is a two-component, epoxy-urethane, catalyst-cured, self-leveling sealant for load bearing saw cut or preformed control joints. Loadflex® achieves its excellent properties through unique urethane-epoxy polymer chemistry.
Where to Use	<ul style="list-style-type: none"> ■ Loadflex® 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® is also used for repairing interior concrete slabs that have experienced random cracking due to shrinkage.
Advantages	<ul style="list-style-type: none"> ■ Hard load bearing sealant designed to withstand industrial traffic. ■ Provides for even load transfer across floor joints, thereby protecting joint edges from breakdown. ■ Seals joints from collecting dirt, dust, and debris. ■ Easily installed by pouring or gunning. ■ Excess material can be shaved off smooth as early as 12 hours. ■ Canadian Food Inspection Agency acceptance.

Technical Data

Packaging	3.41 L and 10 L units (0.9 and 2.6 US gal.)
Colour	Limestone
Estimated Yield for 3.41 L (0.9 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)	45 (147)	22 (72)
32 (1 1/4)	35 (114)	17 (55)
38 (1 1/2)	30 (98)	15 (49)
44 (1 3/4)	26 (85)	13 (42)
51 (2)	22 (72)	11 (36)

Note: Sealant should be placed full saw cut depth

Shelf Life	2 years in original, unopened packaging. Store between 5° - 32°C (41° - 89°F). Condition product to 18° - 30°C (65° - 86°F) before using.
Mixing Ratio	A:B = 9:1 by volume

Properties at 23°C (73°F) and 50% R.H.

Pot Life 250 g (8.8 oz)	55 min
Tack-Free Time ASTM C 679	Approx. 12 hrs
Full Cure	4 days
Tensile Strength ASTM D 638 28 days	4.8 MPa (696 psi)
Elongation at Break ASTM D 412 28 days	130%
Shore A Hardness ASTM D 2240 28 days	80-85
Peel Adhesion (Concrete) CGSB Method 14.6	7.78 N/mm (44 lb/in)
Tear Strength	31 N/mm (177 lb/in)



How to Use	
Surface Preparation	Substrate must be clean and sound. It has to be dry. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, and disintegrated materials.
Mixing	Do not mix less than complete units. Premix each component. Slowly add entire contents of component B to A and mix until uniform in colour. Mix thoroughly for 3 min with a low-speed drill (300-450 rpm) using a paddle.
Application	Pour Loadflex® into construction control joints 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® full joint depth.
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"> ■ Do not thin Loadflex®. Solvents may prevent proper cure. ■ For best results Loadflex® 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 CSA standard A23.04 section 7.3.21 (see note 1). ■ Substrate temperature should be 10°C (50°F) minimum and rising. ■ For interior, horizontal use only ■ For best results, materials should be maintained between 18° - 30°C (65° - 86°F). ■ Do not apply through standing water or on damp surfaces. ■ Loadflex® is a vapour barrier after cure. ■ Not designed for use under constant immersion. ■ For applications in non-moving joints only (max. 5% joint movement). ■ Not recommended for use as a joint filler under resilient flooring. Contact your Sika Technical Sales Representative.
Caution	<p>Component A - Irritant - Prolonged contact with skin may cause irritation. Avoid eye contact.</p> <p>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.</p>
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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