



PRODUCT DATA SHEET

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RIGID JOINT SEALANTS

Sika® Loadflex®

TWO-COMPONENT, EPOXY-URETHANE, LOAD-BEARING, SELF-LEVELLING, CONTROL JOINT FILLER

Description	Sika® Loadflex® is a two-component, epoxy-urethane, catalyst-cured, self-levelling sealant for load bearing saw cut or preformed control joints. Sika® Loadflex® achieves its excellent properties through unique urethane-epoxy polymer chemistry.
Where to Use	<ul style="list-style-type: none"> ▪ Sika® 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. ▪ Sika® 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 (0.9 US gal.) unit	
Colour	Limestone	
Estimated Yield for 3.41 L (0.9 US gal.) unit		
	Joint width	
Joint depth	3 mm (1/8 in)	6 mm (1/4 in)
mm (in)	m (ft)	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 at temperatures between 5 and 32 °C (41 and 89 °F). Condition product between 18 and 30 °C (65 and 86 °F) before using.	
Mix 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 minutes	
Tack-Free Time ASTM C679	Approx. 12 hours	
Full Cure	4 days	
Tensile Strength ASTM D638	28 days 4.8 MPa (696 psi)	
Elongation at Break ASTM D412	28 days 130 %	
Shore A Hardness ASTM D2240	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)	
VOC Content	< 20 g/L	
Chemical Resistance	Consult Sika Canada	
<i>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.</i>		

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 at low-speed (300 - 450 rpm) for three (3) minutes with using a drill fitted with an appropriate mixing paddle.
Application	Pour Sika® 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 Sika® Loadflex® full joint depth.
Clean Up	Clean all tools and equipment with Sika® Urethane Thinner and Cleaner. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
Limitations	<ul style="list-style-type: none">▪ Do not thin Sika® Loadflex®. Solvents may prevent proper cure.▪ For best results Sika® 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) for more information.▪ Substrate temperature should be 10 °C (50 °F) minimum and rising.▪ For interior, horizontal use only.▪ For best results, materials should be maintained at temperatures between 18 and 30 °C (65 and 86 °F).▪ Do not apply through standing water or on damp surfaces.▪ Sika® 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.▪ Do not over-coat Sika® Loadflex® with polymer flooring.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

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 shelflife. 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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