

Sika® LoadFlex

Self-levelling, epoxy-urethane, load-bearing, control joint filler.

Product Description

Sika® LoadFlex is a self-levelling, two-component, epoxy-urethane, catalyst-cured, sealant for load bearing, saw cut or preformed control joints. Sika® LoadFlex achieves its excellent properties through unique urethane-epoxy polymer chemistry.

Uses

- As a filler for interior, horizontal saw cut or control joints subject to load bearing conditions involving impact and wear
- Preformed control joints in facilities such as Warehouses
- Repairing interior concrete slabs that have experienced random cracking

Characteristics / Advantages

- 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

Tests

Approval/Standards

Conforms to the requirements of ASTM C 679 (Tack free time)
Conforms to the requirements of ASTM D 638 (Tensile strength)
Conforms to the requirements of ASTM D 412 (Elongation at break)
Conforms to the requirements of ASTM D 2240 (Shore A hardness)

Product Data

Form

Appearance/Colours Liquid Light Grey (when mixed)

Packaging 2 litre kits

Storage

Storage Conditions / Shelf-Life 12 months in original, unopened packaging. Store between 5°C - 32°C.



Technical Data

Chemical Base Epoxy/urethane

Density 1.1 g/ml

Mechanical Properties

**Tack free time
ASTM C 679** ~12 hours

**Shore A Hardness
ASTM D 2240** 80 – 85 shore A at 28 days

**Peel Adhesion
(Concrete) CGSB
method 14.6** 7.78 kN/m

Tear Strength 31 kN/m

**Elongation at Break
ASTM D 412** 130% at 28 days

System Information

System Structure

Application Details

**Consumption / Dosage
Per 2 litre kit**

Joint depth	Joint width	
	3 mm	6 mm
25mm	26m	13m
32mm	20 m	10m
38mm	17m	8m
44mm	15m	7m
51mm	13m	6m

Substrate Quality Clean and dry, homogeneous, free from grease, dust and loose particles.
Paint, laitance and other poorly adhering particles must be removed. Standard construction rules must be observed.

**Substrate Preparation /
Priming** Substrate must be clean and sound. It has to be dry. Remove dust, laitance, grease, curing compounds, impregnations, waxes foreign particles, and disintegrated materials.

Application Conditions / Limitations

Substrate Temperature Min. 10°C – max. 30°C

Ambient Temperature Min. 10°C – max. 35°C

Substrate Humidity < 4 %

Relative Air Humidity 80 %

Dew Point Substrate temperature must always be at least 3°C above the dew point.

Application Instructions

Mixing (Ratio/Dosage)	Mix complete units. Premix each component. Slowly add entire contents of components B to A and mix until uniform in colour. Mix thoroughly for 3 minutes with a slow-speed drill (300-450rpm) using a paddle.
Application Method / Tools	Pour Sika® LoadFlex into the construction control joint or use low-pressure extrusion equipment. Maintain a steady flow of material. Both applications require care to eliminate overlapping as this may cause bubbling within the material. Place Sika® LoadFlex to full joint depth. Tool the applied sealant 10 to 20 minutes after placing to release entrapped air in the surface layer.
Cleaning of Tools	Uncured material can be removed with Sika® Colma® Cleaner. Cured material can only be removed mechanically,
Pot Life (250g)	55 minutes
Notes on Application/Limits	<p>Sealant should be placed to full saw cut depth.</p> <p>Do not thin Sika® LoadFlex. Solvents may prevent proper cure.</p> <p>For interior, horizontal use only.</p> <p>For best results, materials should be maintained between 18°C - 30°C.</p> <p>Do not apply through standing water or on damp surfaces.</p> <p>Minimum concrete age: 28 days</p> <p>Best performance achieved if concrete is 90 days or older.</p> <p>Concrete or masonry must be tested for water-vapour transmission prior to application.</p> <p>Not designed for use under constant immersion.</p> <p>For applications in non-moving joints only (max. 5% joint movement).</p> <p>Do not apply floor overlays using solvent-based adhesives over Sika® LoadFlex filled joints.</p>

Curing Details

Applied Product ready for use	Full Cure: 4 days
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Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
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Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
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Health and Safety Information

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.
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