

# SikaHyflex® -140 Construction

1-part flexible sealant for Precast sealing

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<b>Product Description / Uses</b>	SikaHyflex®-140 Construction is a 1-part, moisture curing, elastic joint sealant suitable for movement and connection joints between Precast elements.
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<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Good weathering- and ageing resistance</li><li>■ Movement capability of <math>\pm 25</math> (ASTM C719)</li><li>■ Good adhesion to Precast concrete</li><li>■ Suitable for use in hot and tropical climatic conditions</li></ul>
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<b>Approvals / Standards</b>	Conforms to ASTM C920 class 25
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## Technical Data

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<b>Colours</b>	Concrete grey, white, beige
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<b>Packaging</b>	600 ml foil pack, 20 foil packs per box
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<b>Storage Conditions / Shelf-Life</b>	12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.
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## Technical Data

<b>Chemical Base</b>	Polyurethane	
<b>Density</b>	1.40 kg/l approx. <sup>2)</sup>	(CQP <sup>1)</sup> 006-4, ISO 1183-1)
<b>Sag Flow</b>	< 3 mm (20 mm profile, 50°C)	(CQP 061-4, ISO 7390)
<b>Skin Time</b>	150 minutes approx. <sup>2)</sup>	(CQP 019-1)
<b>Tooling Time</b>	130 minutes approx.	(CQP 019-2)
<b>Curing Rate</b>	2 mm/24 h approx. <sup>2)</sup>	(CQP 049-2)
<b>Movement Capability</b>	±25 %	(ASTM C719)
<b>Shore A Hardness</b>	26 after 28 days approx. <sup>2)</sup>	(CQP 023-1, ISO 868)
<b>Tear Propagation Resistance</b>	6.5 N/mm approx. <sup>2)</sup>	(CQP 045-1, ISO 34)
<b>Secant Tensile Modulus</b>	0.55 N/mm <sup>2</sup> approx. at 60% elongation <sup>2), 3)</sup>	(CQP 020-1, ISO 8339)
<b>Elongation at Break</b>	400% approx. <sup>2)</sup>	(CQP 036-1, ISO 37)
<b>Elastic Recovery</b>	80 % approx. <sup>2),3)</sup>	(ISO 7389)
<b>Application Temperature</b>	+5°C to +50°C	
<b>Service Temperature</b>	-40°C to +70°C	

<sup>1)</sup> Sika Corporate Quality Procedure

<sup>2)</sup> 23°C / 50% r.h.

<sup>3)</sup> conditioning: Method B

## Application Details

### Joint Design/ Consumption

The joint width must be designed to suit the movement capability of the sealant. In general the joint width should be > 10 mm and < 35 mm. A width to depth ratio of approx. 2:1 must be maintained.

#### Standard joint widths for joints between concrete elements with $\Delta T^* = 80 \text{ }^\circ\text{C}$

Joint distance [m]	2	4	6	8
Min. joint width [mm]	10	16	26	35
Min. joint depth [mm]	10	10	14	18

\* $\Delta T$  is considered to be the difference between the highest expected temperature in use (or lowest, check which case leads to higher  $\Delta T$ ) and the application temperature.

All joints must be properly designed and dimensioned in accordance with the relevant standards, before construction. Basis for calculation of the necessary joint width are the technical values of the joint sealant and the adjacent building materials, as well as the exposure of the building, type of construction and its dimensions.

#### Approximate consumption

Joint width [mm]	10	15	20	25	30
Joint depth [mm]	10	10	10	12	15
Joint length / 600 ml [m]	6	4	3	2	1.3

Backing: Use closed cell, polyethylene foam backing rods.

<b>Substrate Preparation / Priming</b>	<p>SikaHyflex®-140 Construction generally has strong adhesion without primers/activators to most clean, dry and sound substrates.</p> <p>For optimum adhesion and critical, high performance applications such as multi story building work, high stress bonding joints, extreme weather exposure or water immersion the following procedure shall be followed:</p> <p><u>Porous substrates</u></p> <p>Concrete, aerated concrete and cementitious plasters, mortars, brick, etc. have to be primed with Sika® Primer-3 N by using a brush. Before sealing allow a flash-off time &gt;30 minutes (max. 8 hours).</p> <p>For detailed instructions consult the Product Data Sheet for pre-treatments or contact our Technical Service Department.</p> <p>Primers are adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.</p>
<b>Application Method / Tools</b>	<p>SikaHyflex®-140 Construction is supplied ready to use</p> <p>After suitable substrate preparation, insert backing rod to the required depth and apply primer if necessary. Insert foil pack into sealant gun and extrude SikaHyflex®-140 Construction into joint making sure that it is in full contact with the sides of the joint and avoid air entrapment. SikaHyflex®-140 Construction must be tooled firmly against joint sides to ensure good adhesion.</p> <p>Masking tape may be used where exact joint lines or exceptionally neat lines are required. Remove the tape within the skin time.</p> <p>If SikaHyflex®-140 Construction is dry-tooled it shows a slightly structured, concrete-like surface. If it is wet-tooled (by using a compatible tooling agent e.g. Sika® Tooling Agent N) it shows a smooth surface.</p> <p>Do not use solvent containing products as tooling agents!</p>
<b>Cleaning of Tools</b>	<p>Clean all tools and application equipment with Sika® Remover-208 / Sika® TopClean-T immediately after use. Once cured the material can only be removed mechanically.</p>
<b>Further Documents available</b>	<ul style="list-style-type: none"> <li>■ Material Safety Data Sheet (SDS)</li> <li>■ Pre-treatment Chart Sealing &amp; Bonding</li> <li>■ Method Statement Joint Sealing</li> <li>■ Method Statement Joint Maintenance, Cleaning and Renovation</li> <li>■ Technical Manual Facade Sealing</li> </ul>
<b>Notes on Application / Limitations</b>	<p>SikaHyflex®-140 Construction can be over-painted with most conventional paint. The paint must be tested for compatibility by carrying out preliminary trials and the best results are obtained if the sealant is allowed to cure fully first. Please note that non-flexible paint systems may impair the elasticity of the sealant and lead to cracking of the paint film.</p> <p>Colour deviations may occur due to exposure to chemicals, high temperatures, UV-radiation (especially with colour shade white). However a change in colour will not adversely influence the technical performance or the durability of the product.</p> <p>Before using on natural stone contact our Technical Service.</p> <p>Do not use SikaHyflex®-140 Construction on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plasticisers or solvents which could attack the sealant. Do not use SikaHyflex®-140 Construction to seal swimming pools. SikaHyflex®-140 Construction is not suitable for joints with water pressure or permanent water immersion.</p> <p>Do not expose uncured SikaHyflex®-140 Construction to alcohol containing products as they may interfere with the curing reaction.</p>
<b>Value Base</b>	<p>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.</p>
<b>Health and Safety Information</b>	<p>For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p>
<b>Legal Notes</b>	<p>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,</p>

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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.

**It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.**



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