

BUILDING TRUST

PRODUCT DATA SHEET SikaHyflex[®]-100

WEATHER SELANT FOR CURTAIN WALL, GLASS AND METAL FACADES

CE

DESCRIPTION

SikaHyflex[®]-100 is a silicone based, 1-component, UVstable, moisture-curing, elastic weather-sealant. Suitable for use in hot and tropical climatic conditions.

USES

SikaHyflex[®]-100 is designed for movement and connection joints in building envelopes and adheres well to porous and non-porous substrates.

CHARACTERISTICS / ADVANTAGES

- Very good resistance to weathering
- Movement capability of ± 25% (ASTM C 719)
- Easy to smooth and good workability
- Good adhesion to a wide range of substrates

SUSTAINABILITY

SikaHyflex[®]-105 conforms to LEED[®] EQc 4.1 • VOC content < 50 g/l (US EPA Method 24)

APPROVALS / CERTIFICATES

- EN 15651-1 F EXT-INT CC 25 LM
- EN 15651-2 G CC 25 LM
- ASTM C 920, class 25

Composition	Neutral cure silicone 600 ml foil pack, 20 foil packs per box 300 ml cartridges, 12 cartridges per box		
Packaging			
Colour	Transparent		
Shelf life	SikaHyflex [®] -100 has a shelf life of 12 months from the date of production, if stored in undamaged, original, sealed packaging, and if the storage conditions are met.		
Storage conditions	SikaHyflex [®] -100 shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.		
Density	~1.05 kg/l	(ISO 1183-1)	

Product Data Sheet SikaHyflex®-100 December 2017, Version 01.01 02051103000000058

PRODUCT INFORMATION

TECHNICAL INFORMATIO	ON		
Shore A Hardness	~20 (after 28 d)	(ISO 8)	
Secant Tensile Modulus	~0.30 N/mm ² at 100 % elo ~0.35 N/mm ² at 100 % elo		
Elongation at Break	~600 %	(ISO :	
Elastic Recovery	~80 %	(ISO 73)	
Tear Propagation Resistance	~2.5 N/mm	(ISO)	
Movement Capability	± 25 %	(ASTM C 7	
Service Temperature	-40 °C min. / +150 °C max.		
		Image: space of the shall be ≥ 6 mm and ≤ 15 mm. A width to maintained (for exceptions, see table below).Joint Depth [mm]6810	
	30		
	45	15	
	All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints. For larger joints please contact Technical Department		
SYSTEMS			
Compatibility	SikaHyflex [®] -100 is compatible with most SikaHyflex [®] and Sikasil [®] silicone weather sealants, Sikasil [®] SG adhesives and Sikasil [®] IG sealants. All other sealants and adhesives have to be approved by Sika before using them in direct contact with SikaHyflex [®] -100. Where two or more different reactive sealants and/or adhesives are used,		

Where two or more different reactive sealants and/or adhesives are used, allow the first one to cure completely before applying the next one. For specific information regarding compatibility contact our Technical Department.

BUILDING TRUST



APPLICATION INFORMATION

Consumption	Joint length [m] per 600 ml foil pack	Joint depth [mm]	Joint width [mm]						
	16.7 10 5 3 2 1.3 1.1 1 0.9	6 10 15 20 25 30 35 40 45	6 6 8 10 12 15 15 15 15 15 15 15 15						
				Backing Material	Use closed cell, polyethylene foam backing rods.				
				Sag Flow	~1 mm (20 mm profile	(ISO 7390)			
				Ambient Air Temperature	+5 °C min. / +45 °C max.				
				Substrate Temperature	+5 °C min. / +45 °C max. (min. 3 °C above dew point temperature)				
				Curing Rate	~3 mm/24 hours (23 °C / 50 % r.h.) (CQP 049-2				
				Skinning time	~15 min (23 °C / 50 % r.h.) (CQP 019-1				
				Tack free time	~140 min (23 °C / 50 % r.h.)				

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. The following priming and/or pre-treatment procedures shall be followed:

Non-porous substrates

Float glass, coated glass, anodised aluminium and stainless steel have to be pre-treated using Sika® Aktivator-205, Sika® Aktivator-100 or Sika® Cleaner P. Powder coated and PVDF coated metals have to be pre-treated using Sika® Aktivator-205. For details like application and flash-off times refer to the most recent Product Data Sheet of the respective pre-treatment product.

Porous substrates

Concrete, aerated concrete and cement based renders, mortars and bricks shall be primed using Sika® Primer-3 N or Sika® Primer-210. For details like application and flash-off times refer to the most recent Product Data Sheet of the respective pre-treatment product.

Adhesion tests on project specific substrates must be performed prior to application. For more detailed advice and instructions please contact the Technical Department.

Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly.

APPLICATION METHOD / TOOLS

SikaHyflex[®]-100 is supplied ready to use. After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a foil pack or cartridge into the sealant gun and extrude SikaHyflex[®]-100 into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. SikaHyflex[®]-100 sealant must be firmly tooled against the joint sides to ensure adequate adhesion. It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time.

Do not use tooling products containing solvents.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika[®] Remover-208. Once cured, residual material can only be removed mechanically. For cleaning skin use Sika[®] Cleaning Wipes-100.

FURTHER INFORMATION

- Safety Data Sheet (SDS)
- Pre-treatment Chart Sealing & Bonding
- General Guidelines SikaHyflex and Sikasil Weather Sealants

Product Data Sheet SikaHyflex®-100 December 2017, Version 01.01 02051103000000058



BUILDING TRUST

IMPORTANT CONSIDERATIONS

- SikaHyflex[®]-100 cannot be overpainted.
- Do not use SikaHyflex[®]-100 on natural stone.
- Do not use SikaHyflex[®]-100 on bituminous substrates, natural rubber or any building materials which might bleed oils, plasticizers or solvents that could attack the sealant. EPDM or other gaskets in direct contact with SSikaHyflex[®]-100 have to be tested for compatibility prior to application. For specific advice contact the Technical Department.
- Do not use SikaHyflex®-100 on pre-stressed polyacrylate and polycarbonate as it may cause environmental stress cracking (crazing).
- Do not use SikaHyflex[®]-100 to seal joints in and around swimming pools.
- Do not use SikaHyflex[®]-100 for joints under water pressure or for permanent water immersion.
- Do not expose uncured SikaHyflex®-100 to alcohol containing products as this may interfere with the curing reactio

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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.

SIKA NORTHERN GULF

Bahrain / Qatar / Kuwait Tel: +973 177 38188 sika.gulf@bh.sika.com gcc.sika.com



 ISO 9001: Sika UAE LLC,
 A

 Sika Gulf P.S.C. (c),
 u

 Sika Gulf P.S.C. (c),
 u

 Sika Gulf Andra Co. Ltd,
 sp

 Sika Gulf A.S.C. (c),
 U

 Sika Gulf A.S.C. (c),
 Sika Gulf B.S.C. (c),

 Sika Gulf B.S.C. (c),
 Sika Gulf B.S.C. (c),

 Sika Gulf Anbia Co. Ltd
 Sika Gulf B.S.C. (c),

 Sika Gulf B.S.C. (c),
 Sika Sudi Anbia Co. Ltd

 Sika Gulf B.S.C. (c),
 Sika Sudi Anbia Co. Ltd

Product Data Sheet SikaHyflex®-100 December 2017, Version 01.01 02051103000000058

SIKA SOUTHERN GULF

UAE / Oman / SIC Tel: +971 4 439 8200 info@ae.sika.com gcc.sika.com

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS

SIKA SAUDI ARABIA

Riyadh / Jeddah / Dammam Tel: +966 11 217 6532 info@sa.sika.com gcc.sika.com

SikaHyflex-100-en-AE-(12-2017)-1-1.pdf



BUILDING TRUST