

PRODUCT DATA SHEET

SikaHyflex®-305 AP

Weather sealant for curtain wall and metal cladding facades

DESCRIPTION

SikaHyflex®-305 AP is a 1-component, moisture curing, low-modulus elastic weather sealant.

USES

SikaHyflex®-305 AP is designed for weather proofing and sealing applications where durability under severe conditions is required. SikaHyflex®-305 AP is particularly suited for use as a weather sealant for curtain wall and metal cladding facades.

CHARACTERISTICS / ADVANTAGES

- Very good resistance to weathering
- Movement capability of ±50 % (ASTM C 719)
- Very good workability
- Good adhesion to a wide range of substrates
- Solvent-free
- Neutral cure

APPROVALS / STANDARDS

ASTM C 920, class 50

PRODUCT INFORMATION

Chemical Base	Neutral cure silicone	Neutral cure silicone		
Packaging	300 ml cartridge, 25 cartridges per box	300 ml cartridge, 25 cartridges per box		
Colour	Black, Grey Further colour available on request	•		
Shelf Life	SikaHyflex®-305 AP has a shelf life of 12 months for cartridges from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.			
Storage Conditions	SikaHyflex®-305 AP shall be stored in dry conditions, w from direct sunlight.	SikaHyflex®-305 AP shall be stored in dry conditions, where it is protected from direct sunlight.		
Density	~ 1.50 kg/l	(ISO 1183-1)		

TECHNICAL INFORMATION

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Shore A Hardness	~ 25 (after 28 days)	(ISO 86
Secant Tensile Modulus	~ 0.35 N/mm² at 100 % el ~ 0.40 N/mm² at 100 % el	• , ,
Elongation at Break	~ 800 %	(ISO 3
Elastic Recovery	~ 80 %	(ISO 738
Tear Propagation Resistance	~ 4.5 N/mm	(ISO 3
Movement Capability	± 25 % ± 50 %	(ISO 904 (ASTM C 71:
Resistance to Weathering	10	(ISO / DIS 1986
Service Temperature	−40 °C to +150 °C	
Joint Design	the movement capability of and ≤ 45 mm. The joint dedepth ratio of 2:1 must be Typical joint dimensions Joint width [mm] 10 15 20 30 45 All joints must be correctly the relevant standards, be of the necessary joint widthe technical values of the material, as well as the sp	esigned to suit the joint movement required and of the sealant. The joint width shall be ≥ 6 mm pth shall be ≥ 6 mm and ≤ 15 mm. A width to maintained (for exceptions, see table below). Joint depth [mm]
Compatibility	SikaHyflex®-305 AP 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®-305 AP. 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 Sika technical service.	

APPLICATION INFORMATION

Consumption	Joint length [m] per 600 ml foil pack 10	Joint width [mm]	Joint depth [mm]		
		10			
	5	15	8		
	3	20	10		
	2	25	12		
	1.3	30	15		
Backing Material	Use closed cell, polye	Use closed cell, polyethylene foam backing rods			
Sag Flow	~ 2 mm (20 mm prof	~ 2 mm (20 mm profile, 50 °C) (ISO 7390			
Ambient Air Temperature	+5 °C to +40 °C, min. 3 °C above dew point temperature				
Substrate Temperature	+5 °C to +40 °C	+5 °C to +40 °C			
Curing rate	~ 2 mm / 24 hours (2	3 °C / 50 % r.h.)	(CQP 049-2)		



(CQP 019-1)

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

Safety Data Sheet (SDS)

LIMITATIONS

- SikaHyflex®-305 AP cannot be overpainted.
- Colour variations may occur due to exposure to chemicals or other extreme external influences.
 However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Do not use SikaHyflex®-305 AP on natural stone.
- Do not use SikaHyflex®-305 AP 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 SikaHyflex®-305 AP have to be tested for compatibility prior to application. For specific advice contact Sika technical service.
- Do not use SikaHyflex®-305 AP on pre-stressed polyacrylate and polycarbonate as it may cause environmental stress cracking (crazing).
- Do not use SikaHyflex®-305 AP to seal joints in and around swimming pools.
- Do not use SikaHyflex®-305 AP for joints under water pressure or for permanent water immersion.
- Do not expose uncured SikaHyflex®-305 AP to alcohol containing products as this may interfere with the curing reaction.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

The maximum content of SikaHyflex®-305 AP is 44.5 g/L VOC for the ready to use product.

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 PDS 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 PDS 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 Sika technical service. 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®-305 AP is supplied ready to use. After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply pre-treatment if necessary. Insert a foil pack or cartridge into the sealant gun and extrude SikaHyflex®-305 AP into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. SikaHyflex®-305 AP 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.

CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Remover-208 and/or Sika® Top-Clean T. Once cured, residual material can only be removed mechanically.



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.

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. 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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