

PRODUCT DATA SHEET

Sikaflex®-111 Stick & Seal

Flexible adhesive and sealant

DESCRIPTION

Sikaflex®-111 Stick & Seal is a 1-part, multipurpose adhesive and sealant with a very broad adhesion and sealing profile which bonds and seals most construction material substrates. Internal and external use.

USES

An adhesive to bond most construction components and materials such as:

- Concrete
- Masonry
- Most stones
- Ceramic
- Wood
- Metal
- Glass
- Plastics such as PVC, PA, PET and EPS/XPS

A sealant to seal vertical and horizontal joints.

FEATURES

- Bonds well to a wide variety of substrates without surface pre-treatment
- Bonds to damp concrete
- Compatible with with most substrates, EPS/XPS, building wraps and bitumen
- Good mechanical resistance and weathering resistance
- Adhesive-sealant with CE marking

SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- VOC emission classification GEV-EMICODE EC 1^{PLUS}
- VOC emission classification of building materials RTS M1
- Class A+ according to French Regulation on VOC emissions

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 15651-1 - Sealants for non-structural use in joints in buildings - Facade elements: Class F EXT-INT CC 20HM

PRODUCT INFORMATION

Composition	Silane terminated polymer	
Packaging	290 ml cartridge, 12 cartridges per box	
Colour	White, concrete grey, brown, black	
Shelf life	12 months from the date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1,40 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	~36 (after 28 d)	(ISO 868)
Tensile strength	~1,5 N/mm ²	(ISO 37)
Secant tensile modulus	~0,65 N/mm ² at 60 % elongation (23 °C)	(ISO 8339)
Tensile strain at break	~250 %	(ISO 37)
Elastic recovery	~75 %	(ISO 7389)
Tear propagation resistance	~4,5 N/mm	(ISO 34)
Service temperature	-50 °C min. / +80 °C max.	
Joint design	The joint width must be designed to suit the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 20 mm. A width to depth ratio of 2:1 must be maintained. Joints ≤ 10 mm in width are for crack control and therefore non-movement joints. For larger joints contact Sika Technical Services for additional information.	

APPLICATION INFORMATION

Yield	Bonding		
	Yield		Dimension
	1 Cartridge (290 ml)		
	~100 spots		Diameter = 30 mm
	~15 m bead		Thickness = 4 mm
	Sealing		
	Joint width	Joint depth	Joint length
	mm	mm	m per Cartridge (290 ml)
	10	10	2,9
	15	12	1,6
	20	17	0,9
Backing material	Use closed cell, polyethylene foam backing rods		
Sag flow	0 mm (20 mm profile, 23 °C)		(ISO 7390)
Ambient air temperature	+5 °C min. / +40 °C max.		
Substrate temperature	+5 °C min. / +40 °C max., min. 3 °C above dew point temperature		
Curing rate	~3 mm/24 h (23 °C / 50 % r.h.) Sika Corporate Quality Procedure (CQP 049-2)		
Skinning time	~35 min (23 °C / 50 % r.h.)		(CQP 019-1)

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.

FURTHER DOCUMENTATION

- Pre-treatment Sealing and Bonding Chart

IMPORTANT CONSIDERATIONS

- For good workability, the adhesive temperature must be +20 °C.
- Application during high temperature changes is not recommended (movement during curing).
- Before bonding or sealing, check adhesion and compatibility of paints and coatings by carrying out preliminary trials.
- Sikaflex®-111 Stick & Seal can be overpainted with most conventional water-based coating and paint

systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials. The best over-painting results are obtained when the adhesive is allowed to fully cure first. Note: non-flexible paint systems may impair the elasticity of the adhesive and lead to cracking of the paint film.

- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV-radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Always use Sikaflex®-111 Stick & Seal in conjunction with mechanical fixings for overhead applications or heavy components.
- For very heavy components provide temporary support until Sikaflex®-111 Stick & Seal has fully cured.
- Full surface applications / fixings are not recommended since the inner part of the adhesive layer may never cure.
- Before using on natural stone, contact Sika Technical Services.
- Do not use on natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the adhesive.
- For use on bituminous substrates, preliminary trials are recommended or contact Sika Technical Services.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and certain plasticised synthetic materials. Preliminary trials are recommended or contact Sika Technical Services.
- Do not use to seal joints in and around swimming pools.
- Do not use for joints under water pressure or for permanent water immersion.
- Do not use to seal glass or in floor or sanitary joints.
- Do not use for bonding glass if the bond line is exposed to sunlight.
- Do not use for structural bonding.
- Do not expose uncured Sikaflex®-111 Stick & Seal to alcohol containing products as this may interfere with the curing reaction.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded paint coatings which could affect adhesion of the adhesive / sealant. The substrate should be of sufficient strength to resist with the stresses induced by the sealant during movement. Removal techniques such as wire brushing, grinding, sanding or other suitable mechanical tools can be used.

All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or adhesive / sealant.

Sikaflex®-111 Stick & Seal adheres without primers and/or activators. However, for optimum adhesion, joint durability and critical, high performance applications the following priming and/or pre-treatment procedures shall be followed:

Non-porous substrates

Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles, slightly roughen surface with a fine abrasive pad.

Clean and pre-treat using Sika® Cleaner P or Sika®

Aktivator-205 applied with a clean cloth. Before bonding / sealing, allow a waiting time of > 15 minutes (< 6 hours).

Other metals, such as copper, brass and titanium-zinc, clean and pre-treat using Sika® Cleaner P or Sika® Aktivator-205 applied with a clean cloth. After a waiting time of > 15 minutes (< 6 hours). Apply Sika® Primer-3 N applied by brush. Allow a further waiting time of > 30 minutes (< 8 hours) before bonding / sealing.

PVC has to be cleaned and pre-treated using Sika® Cleaner P applied with a clean cloth. Before bonding / sealing, allow a waiting time of > 15 minutes (< 6 hours).

Porous substrates

Concrete, aerated concrete and cement based renders, mortars and bricks, prime surface using Sika® Primer-3 N applied by brush. Before bonding / sealing, allow a waiting time of > 30 minutes (< 8 hours).

For more detailed advice and instructions contact Sika Technical Services.

Note: Primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of joint surfaces. Primers also improve the long term adhesion performance of the sealed joint.

APPLICATION METHOD / TOOLS

Bonding Procedure

After the necessary substrate preparation, prepare the end of the cartridge before or after inserting into the sealant gun then fit the nozzle.

Apply in beads, strips or spots at intervals of a few centimetres each. Use hand pressure only to fix the components to be bonded into position before skinning of the adhesive occurs. Incorrectly positioned components can easily be unbonded and repositioned during the first few minutes after application. If necessary, use temporary adhesive tapes, wedges, or supports to hold the assembled components together during the initial curing time.

Fresh, uncured adhesive remaining on the surface must be removed immediately. Final strength will be reached after complete curing of Sikaflex®-111 Stick & Seal, i.e. after 24 to 48 hours at +23 °C, depending on the environmental conditions and adhesive layer thickness.

Sealing Procedure

Masking

It is recommended to use masking tape where neat or

exact joint lines are required. Remove the tape within the skin time after finishing.

Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

Priming

Prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

Application

Prepare the end of the cartridge before or after inserting into the sealant gun then fit the nozzle. Extrude Sikaflex®-111 Stick & Seal into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.

Use a compatible tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. 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, hardened material can only be removed mechanically. For cleaning skin use Sika® Cleaning Wipes-100.

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 exact product data and uses.

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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Product Data Sheet

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