BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-402 Airport

COLD-APPLIED, TAR-FREE POLYURETHANE PAVEMENT JOINT SEALANT FOR AIRPORTS

DESCRIPTION

Sikaflex®-402 Airport is a polyurethane, 2-part, elastic, self-levelling sealant specifically designed for sealing joints in airport pavement construction. Movement capability ±35 %. Internal and External use.

USES

- Sealing joints for concrete airport pavements including aprons, hangars and hard standings.

CHARACTERISTICS / ADVANTAGES

- Self-levelling
- Tar-free
- Resistant to jet fuel exposure
- Do not use where EN 14188-2 or EN 15651-4 applies

ENVIRONMENTAL INFORMATION

- IBU Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

- ASTM C920-14, Sikaflex-402 Airport, MST, Report No 0716920-SIKA
- Federal Specification SS-S-200E, Sikaflex-402 Airport, Intertek, Report Summary No.F0913.01-106-31

PRODUCT INFORMATION

Chemical Base	2-Part polyurethane		
Packaging	Part A	17.1 L container	
	Part B	1.9 L container	
Colour	Black, grey		
Shelf Life	9 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	Part A	~1.15 kg/l	(ISO 1183-1)
	Part B	~1.10 kg/l	
	Mixed	~1.15 kg/l	
Product Declaration	ASTM C920-14: Type M, Grade P, Class 35, Uses T2, and M. Federal Specification SS-S-200E- Passed all requirements.		

TECHNICAL INFORMATION

Shore A Hardness	~15 (after 28 d)	(ASTM C 661, ISO 868)
Tensile Strength	~0.50 N/mm²	(ISO 37)
Elongation at Break	~500 %	(ISO 37)
Movement Capability	±35 %	(ASTM C 719)
Chemical Resistance	Jet fuel. Contact Sika Technical Services for specific information.	
Service Temperature	-40 °C min. / +80 °C max.	
Joint Design	The joint dimensions must be designed to suit the movement capability of the sealant. The joint width shall be ≥ 8.0 mm and ≤ 25 mm. The joint depth shall be between 0.5 and 0.8 of the joint width (width to depth ratio between 1:0.8 and 2:1), always ensure ≥ 8 mm. The joint shall be recessed half of the joint width, always ensure ≥ 10 mm.	

Typical joint dimensions

Joint width [mm]	Joint depth [mm]	Recessed below surface [mm]
8	8	10
10	8	10
15	8	10
20	10	10
25	12	13

For larger joints contact Sika Technical Services for additional information.

APPLICATION INFORMATION

Mixing Ratio	9 : 1 by volume (Part A : Part B)

Consumption

Joint width [mm]	Joint depth [mm]	Joint length [m] per 19 Litres
8	8	300
10	8	240
15	8	160
20	20	95
25	25	60

Backing Material	Use closed cell polyethylene foam backing rod
Sag Flow	Self-levelling. Use on slopes ≤ 3 %
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max. Minimum 3 °C above dew point temperature
Pot Life	~40 min (23 °C / 50 % r.h.)
Curing Time	~48 hours to reach full mechanical properties

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The concrete substrate must be clean, dry, sound and free from oils, grease, dust, cement laitance and loose or friable particles. Concrete surfaces should be saw-cut or with cement laitance removed. Where joints in substrate are saw cut. After sawing, all slurry material, must be flushed away and joint surfaces allowed to dry.

For optimum adhesion and joint durability, the following substrate priming (and/or pre-treatment) procedures must be followed:
Prime with Sika® Primer-206 G+P or Sika® Primer-115 by using a clean brush or roller. Before sealing, allow a waiting time of > 30 minutes (< 8 hours).
Note: Primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface. Primers also improve the long term adhesion performance of the sealed joint.

MIXING

Prior to mixing all parts, mix part A using a low speed single paddle electric stirrer (300–400 rpm) until a uniform colour has been achieved. Add part B to part A and mix part A + B continuously for 3.0 to 5.0 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for at least 1,0 minute to achieve a smooth consistent mix. Over mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = 4.0–6.0 minutes

APPLICATION METHOD / TOOLS

Refer to Method Statement: Sikaflex®-402 Airport for more information.

CLEANING OF TOOLS

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.

FURTHER DOCUMENTS

- Method Statement: Sikaflex®-402 Airport
- Pump Application of Sikaflex®-402 Airport Video
- Pre-treatment Sealing and Bonding Chart

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LIMITATIONS

- Do not use Sikaflex®-402 Airport on natural stone.
- Do not use any other primers than stated in Product Data Sheet
- Do not use Sikaflex®-402 Airport for joints in and around swimming pools.
- Do not use Sikaflex®-402 Airport in areas which are exposed to strong oxidising acids (e.g. nitric acid) and bases.
- Do not use for structural glazing or as a glass sealant.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leech oils, plasticisers or solvents that could degrade the sealant
- Do not use Sikaflex®-402 Airport where EN 14188-2 or EN 15651-4 applies

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY

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.