

PRODUCT DATA SHEET

Sikasil® Bio

1-COMPONENT FUNGI RESISTANT SILICONE SEALANT

DESCRIPTION

Sikasil® Bio is a neutral-curing silicone sealant with fungi resistance and excellent adhesion to a wide range of substrates.

Sikasil® Bio is manufactured in accordance with ISO 9001/14001 quality assurance system and the responsible care program.

USES

- All internal sealing in areas of high humidity or subject to condensation
- Sealing around baths, showers, basins and sanitary-war

CHARACTERISTICS / ADVANTAGES

- Outstanding fungi, UV and weathering resistance
- Adheres well to many substrates including glass, ceramic, metals, coated and painted metals, plastics and wood
- Fast curing
- Permanently flexible
- Low VOC emissions

SUSTAINABILITY

Approval from Korea Ministry of Environment

APPROVALS / CERTIFICATES

KS F 4910 F-25LM
Korea LH special specifications 31570/2010

PRODUCT INFORMATION

Composition	Neutral cure silicone
Packaging	270 ml cartridge (25 ctg / box)
Colour	White, Translucence
Shelf life	12 months from the date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packing in dry conditions at temperature between +5°C and +25°C. Always refer to packaging.
Density	~ 1,06 kg/l

TECHNICAL INFORMATION

Shore A Hardness	~ 20 (after 28 days)	
Tensile Strength	1.4 N/mm ²	(ISO 37)
Secant Tensile Modulus	~ 0,3 N/mm ² at 100% elongation (+23°C)	(ISO 8339)
	~ 0,4 N/mm ² at 100% elongation (-20°C)	(ISO 8339)

Elongation at Break	~ 600 %	(ISO 37)
Movement Capability	±25%	(ISO 11600)
Service Temperature	-40 ~ +150°C	

APPLICATION INFORMATION

Sag Flow	~ 2 mm (20mm profile, 50°C)	
Ambient Air Temperature	+5°C min. / +40°C max.	
Skinning time	5 ~ 10 min	(CQP 019-2)
Tack free time	10 ~ 15 min	(CQP 019-1)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. For optimum adhesion and joint durability, the following substrate priming (and/or pre-treatment) procedures must be followed:

Non-porous substrates

Float glass, coated glass, anodised aluminium and stainless steel must be pre-treated using Sika® Aktivator-205, Sika® Aktivator-100 or Sika® Cleaner P. Powder coated and PVDF coated metals must be pre-treated using Sika® Aktivator-205. For more details such as 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 must be primed using Sika® Primer-3 N or Sika® Primer-210. For more details such as 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 and procedures agreed with all parties before full project application. For more detailed advice and instructions contact Sika Technical Services.

Note: Primers and activators 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.

APPLICATION METHOD / TOOLS

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

Sikasil® Bio is supplied ready to use. Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle. Extrude Sikasil® Bio 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.

FURTHER INFORMATION

Copies of the following publications are available on request:

- Material Safety Data Sheet

IMPORTANT CONSIDERATIONS

- Sikasil® Bio cannot be overpainted.
- DO NOT USE on ACRYLIC BATHTUB because of poor adhesion.
- Do not use on soft metals such as lead or brass.
- Protect the sealant after application for at least 24 hours.
- Colour variations may occur due to exposure to chemicals or other extreme external influences. This effect is aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Do not use on natural stone.
- Do not use on pre-stressed polyacrylate and polycarbonate as it may cause environmental stress crack-

ing (crazing).

- Do not use to seal joints in and around swimming pools.
- Do not use for joints under water pressure or permanent water immersion.
- Where two or more different reactive sealants are used, allow the first to cure completely before applying the next.
- Do not use on bituminous substrates, natural rubber or any building materials which might bleed oils, plasticisers or solvents that could degrade the sealant.
- EPDM or other gaskets in direct contact with Sikasil® Bio have to be tested for compatibility prior to application. For specific advice contact Sika Technical Services.

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.

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