

BUILDING PRODUCT INFORMATION SHEET

Sikasil® Roofing & Plumbing

ALCOXY SILICONE SEALANT

DESCRIPTION

Sikasil® Roofing & Plumbing is a one-component neutral curing silicone sealant suitable for roofing & plumbing applications. It is used as a joint sealant between a variety of substrates.

USES

Sikasil® Roofing & Plumbing is a highly UV resistant silicone rubber, suitable for all roofing and plumbing applications including:

- Gutters and flashings
- Metal roofing
- Lap joints
- Skylights
- Air conditioners
- Vents and ducting

Sikasil® Roofing & Plumbing has excellent elasticity and flexibility, with very strong adhesion to a wide variety of common building surfaces including:

Anodised and powder coated aluminium	Painted surfaces
Pre-coated metal roofing	Ceramic tiles

Glazed concrete and clay roofing tiles	Sheet metal and flashings
Concrete, bricks and terracotta	Rigid PVC, acrylics, polycarbonates
Copper, brass, galvanised metal	Mill finish aluminium

FEATURES

- Highest quality, non-sag
- Excellent adhesion to a wide range of substrates
- Highly elastic +/-25%
- Excellent UV resistance
- Non-corrosive
- Fast curing
- Resistance to mould growth
- Low odour

APPROVALS / CERTIFICATES

Complies with ISO 11600 – Type F – Class 25LM and ISO 11600 – Type G – Class 25 LM. Suitable for use under Building Code Acceptable Solution E2/AS1 – External Moisture

PRODUCT INFORMATION

Product identifier	Sikasil® Roofing & Plumbing	
Place of manufacture	Aotearoa New Zealand	
Composition	Alcoxy	
Packaging	300ml cartridges, 12 cartridges per box	
Shelf life	Eighteen (18) months from date of production when stored as stated.	
Storage conditions	Store in cool, dry conditions in original unopened containers.	
Colour	Translucent	
Density	~1.02 g/cm ³	(DIN51757)

TECHNICAL INFORMATION

Shore A hardness	~ 22	(ISO 868)
Tensile strength	~ 0.70 N/mm ²	(ISO 8339)
Movement capability	25%	(ISO 11600)
Elastic recovery	>90%	
Tear strength	4.6 N/mm	(ISO 34 method C)
Joint design	<ul style="list-style-type: none">▪ The sealant joint width should be designed to accommodate the movement capability of the sealant.▪ In general, minimum joint width should be 6mm.▪ For joints between 6 - 12mm wide, a seal depth of 6mm is recommended.▪ For joints greater than 12mm wide, a width to depth ratio of 2 : 1 is recommended.	

APPLICATION INFORMATION

Curing rate	1 day ~ 2mm (23°C, 50% r.h.)
Skimming time	~ 25 minutes (23°C, 50% r.h.)

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years E2 External Moisture: Performance clause E2.3.2 E3 Internal Moisture: Performance Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	<p>Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2005.</p> <p>Performance E2.3.1, E2.3.2: In accordance with E2/AS1 and E2/AS3 (CCANZ CP 01:2014) this product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification (refer to nzl.sika.com). When used to seal flexible joints, as part of a roofing or wall cladding system, or around external openings, such as windows and doors, the product contributes to meeting the E2.3.1 and E2.3.2 weathertightness requirements.</p> <p>Performance E3.3.3, E3.3.4, E3.3.5, E3.3.6: This product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification. When used to form impervious and easy to clean joints between sheet lining materials and between fixtures and linings, as defined in E3/AS1, it contributes to meeting these impermeability requirements.</p>

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- Do not use on bituminous substrates, natural rubber, chloroprene or EPDM or on building materials which might bleed oils, plasticizers or solvents.
- Do not use in a totally confined space, because the sealant requires atmospheric moisture to cure.
- Bleeding can occur on porous substrates such as concrete, marble, granite and other natural stones. On sensitive substrates, specific testing should be carried out.
- Sikasil® Roofing & Plumbing is not recommended for use in submerged joints or in joints where mechanical damage or abrasion are likely to occur.
- Do not use in fish tanks.
- Sikasil® Roofing & Plumbing is not recommended for structural glazing or insulated glazing applications.
- Sikasil® Roofing & Plumbing is not suitable for food contact applications.
- Sikasil® Roofing & Plumbing is neither tested nor represented as suitable for medical or pharmaceutical uses.
- Refer to the "Sikaflex Elastomeric Sealants" guide for information on joint design and calculation of joint movement.
- Sikasil® Roofing & Plumbing will resist the growth of mould but it cannot totally prevent mould growth if a build up of fats and soap residue is allowed to occur.

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.

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

Sikaflex Elastomeric Sealants - Joint design and movement calculation guide nzl.sika.com

Sika Sealant Selector Guide, Consumption Guide and Best Practice Tips nzl.sika.com

SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from loose particles, grease and dirt. Degrease surface with Sika® Thinner C if necessary. Allow the surface to dry (i.e. the solvent to fully evaporate) before proceeding

APPLICATION

- For best results apply masking tape to both sides of the joint before sealing and remove masking tape before silicone skins.
- Cut tip off nozzle at 45 angle and gun sealant into joint.
- The sealant should be tooled smooth within 5-10 minutes, or before surface skins, using a spatula which has been dipped into diluted soapy water. Masking tape is then removed immediately.
- Uncured material can be removed by using a suitable solvent or an approved sealant remover. Cured material may be removed by abrasion or other mechanical means

MAINTENANCE REQUIREMENTS

Joints that have been sealed with this product should be inspected annually (or sooner if required). Gently clean the surface of the joint with a mild solution of water and household detergent, using a soft brush to remove any residual contaminants and rinse clean with fresh water. Any defects within the joint should be identified and removed. The joint should then be cleaned, primed and repaired using the same Sika product to restore the original integrity of the joint. Refer to the Sika product data sheet and the website for further information. nzl.sika.com

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.

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.

NZ BUILDING PRODUCT INFORMATION SHEET

Sikasil® Roofing & Plumbing
12/12/2024 File version 1.0
020514030000000025

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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NZBPIS-4904-7502-7502-en-GB-1.0

