

PRODUCT DATA 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

CHARACTERISTICS / ADVANTAGES

- 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 / STANDARDS

ISO 11600:2002 Class F-25LM. Certified

ISO 11600:2002 Class G-25LM. Compliant

NZ Building Code Compliant

- B2 Durability: Clauses B2.3.1 (b) 15 years. (c) 5 years
- E2 External Moisture: Clause E2.3.2
- E3 Internal Moisture: Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6
- F2 Hazardous Building Materials: Clause F2.3.1

PRODUCT INFORMATION

Chemical Base	Alcoxy
Packaging	300ml cartridges, 12 cartridges per box
Colour	Translucent
Shelf Life	Eighteen (18) months from date of production when stored as stated.
Storage Conditions	Store in cool, dry conditions in original unopened containers.

Density ~1.02 g/cm³ (DIN51757)

TECHNICAL INFORMATION

Shore A Hardness ~ 22 (ISO 868)

Tensile Strength ~ 0.70 N/mm² (ISO 8339)

Elastic Recovery >90%

Tear Strength 4.6 N/mm (ISO 34 method C)

Movement Capability 25% (ISO 11600)

Joint Design

- 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.)

Skin Time ~ 25 minutes (23°C, 50% r.h.)

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.

LIMITATIONS

- 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

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 METHOD / TOOLS

- 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

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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Product Data Sheet
Sikasil® Roofing & Plumbing
November 2024, Version 02.01
02051403000000025

SikasilRoofingPlumbing-en-NZ-(11-2024)-2-1.pdf

