

PRODUCT DATA SHEET

Sikasil Roofing & Plumbing (NZ)

ALCOXY SILICONE SEALANT

PRODUCT 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:

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|--|-----------------------------|
| ▪ Anodised and powder coated aluminium | ▪ Pre-coated metal roofing |
| ▪ Glazed concrete and clay roofing tiles | ▪ Painted surfaces |
| ▪ Concrete, bricks and terracotta | ▪ Ceramic tiles |
| ▪ Copper, brass, galvanised metal | ▪ Sheet metal and flashings |
| ▪ Rigid PVC, acrylics, polycarbonates | ▪ 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
- Contains mould repellent - long term resistance to fungal activity
- Low odour

TESTS

APPROVAL / STANDARDS

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 DATA

FORM**COLOUR**

Translucent

PACKAGING

300ml cartridges, 12 cartridges per box

STORAGE**STORAGE CONDITIONS / SHELF-LIFE**

Eighteen (18) months from date of production when stored in cool, dry conditions in original unopened containers.

TECHNICAL DATA**APPLICATION TEMP.**

+ 5°C to + 40°C

CURE SYSTEM

Alcoxy

SPECIFIC GRAVITY

Clear: ~ 1.01kg/l

SKIN OVER TIME

~ 15 min. (23°C, 50% r.h.)

CURE RATE

1 day ~ 2mm (23°C, 50% r.h.)

E-MODULUS AT 100% ELONGATION

ISO 8339 ~ 0.34 MPa

TENSILE STRENGTH

ISO 8339 ~ 0.50 MPa

SHORE A HARDNESS

ISO 868 ~ 18

TEAR STRENGTH

ISO 34 method C 4.0 N/mm

ELASTIC RECOVERY

> 90 %

JOINT MOVEMENT CAPABILITY

25% (ISO 11600)

System Information

APPLICATION CONDITIONS**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.

METHOD OF 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.

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.

NOTES ON APPLICATION / 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" data sheet, for information on joint design and calculation of joint movement.

VALUE BASE

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 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.

HEALTH AND SAFETY INFORMATION

PROTECTIVE MEASURES

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.
- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

IMPORTANT NOTES

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.

FOR MORE SIKASIL ROOFING & PLUMBING (NZ) INFORMATION:



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