BUILDING TRUST

PRODUCT DATA SHEET

SikaSeal® Roof & Gutter

Neutral cure roof and gutter silicone sealant

DESCRIPTION

SikaSeal® Roof & Gutter is a one-component, neutral curing, low odour silicone sealant with excellent adhesion to most construction surfaces.
SikaSeal® Roof & Gutter cures through the absorption of atmospheric moisture to give a tough but flexible waterproof seal.

USES

SikaSeal® Roof &Gutter provides weatherproof joints between various substrates such as glass, metals, painted surfaces, wood, ceramic tiles and concrete, etc.
- Roofing applications
- Metal Gutters
- Polycarbonate roof sheeting
- General construction and electrical applications
- Weather seals between aluminium and glas
- Perimeter seals between aluminium window frames, masonry and brick
- Around plumbing fixtures and penetrations
- As a sealant for formwork in the precast industry
- Maintenance and industrial applications
- General interior & exterior sealing around the home
- As a non-structural adhesive

CHARACTERISTICS / ADVANTAGES

- Neutral cure
- Very good UV and weathering resistance
- Low odour
- Non corrosive
- Non-sag
- Great tooling characteristics
- Interior and exterior usage
- Fast curing
- Minimum movement capability ±25%
- High temperature resistance (-40°C to +150°C)

*Not for use on all metal substrates i.e. copper.
-See Limitations below prior to use.

APPROVALS / STANDARDS

AS/NZS 4020:2018 - Water Potable Approved
ISO 11600:2002 Class F-25LM. Compliant
AS/NZS 4020:2018 Potable Water Approved
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	Neutral cure silicone
Packaging	300ml cartridge
Colour	Translucent
Shelf Life	12 months from date of production if the storage conditions are met.
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.
Density	~1.02 kg/l

Shore A Hardness	~26
Secant Tensile Modulus	0.45 N/mm2
Elongation at Break	~250%
Tensile Adhesion Strength	~ 1.2 N/mm2 (+23°C / 50% r.h.)
Movement Capability	±25%
Service Temperature	-40°C to +150°C
Joint Design	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 45 mm. The joint depth shall be ≥ 6 mm and ≤ 15 mm. A width to depth ratio of 2:1 must be maintained (for exceptions, see table below). Typical joint dimensions.

Joint Width (mm)	Joint Depth (mm)	Joint Length /600 ml ssg
6	4	25 mm
9	5	13 mm
12	6	8 mm

All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints. For larger joints please contact Sika technical service.

Contact with water	AS/NZS 4020:2018 - Water Potable Approved
Ambient Air Temperature	+5°C min. / +40°C max.
Substrate Temperature	+5°C min. / +40°C max. min. 3°C above dew point temperature
Curing Rate	~3-4 mm per 24 hours (+23°C / 50% r.h.)
Skin Time	~ 20 min (+23°C / 50% r.h.)
Tack Free Time	~5-10 minutes

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

- When applying sealant into a previously silicone sealed joint, ensure all residue is removed from joint.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV-radiation. This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- The complete absence of UV may cause silicone to discolour, this effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- SikaSeal® Roof & Gutter cannot be overpainted.
- Do not use on natural stone.
- Do not use on bituminous substrates, natural rubber or any building materials which might leach oils, plasticisers or solvents that could degrade the sealant. EPDM or other gaskets in direct contact with SikaSeal® Roof & Gutter have to be tested for compatibility prior to application.
- Pre-test should be performed prior to use on pre-stressed polyacrylate and polycarbonate as it may cause environmental stress cracking (crazing).
- Pre-test in an inconspicuous area prior to use in application on porous material such as concrete to ensure the product does not stain the substrate.
- Do not use SikaSeal® Roof & Gutter in areas which are exposed to strong oxidising acids (e.g. nitric acid) and bases.
- Do not use to seal joints in or around swimming pools.
- Do not use for joints under water pressure or permanent water immersion.
- Do not use SikaSeal® Roof & Gutter in totally confined spaces as it requires atmospheric moisture to cure.
- Do not use for medical or pharmaceutical applications.
- Not for use on some metal substrates i.e. copper.
- For further information on substrate, preparation or application, please contact Sika Technical Services.

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

The substrate must be clean, dry, sound and free from oils, grease, dust, cement laitance and loose or friable particles. For optimum adhesion, joint durability and critical, high performance applications such as joints on multi-storey buildings, highly stressed joints, extreme weather exposure or water immersion/exposure. The following 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 or Sika® Aktivator-100. 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. 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. Contact Sika Technical Services for additional information. 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.

Priming
If required, 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
SikaSeal® Roof & Gutter is supplied ready to use. Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle. Extrude SikaSeal® Roof & Gutter 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 water based non-staining tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. Do not use tooling products containing solvents.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened material can only be removed mechanically. For cleaning skin, use Sika® Cleaning Wipes-100.

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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