

PRODUCT DATA SHEET

Sikasil® General Purpose

Alcoxy Silicone Sealant

DESCRIPTION

Sikasil® General Purpose is a one-component neutral curing silicone sealant suitable for indoor and outdoor applications. It is used as a joint sealant between a variety of substrates.

USES

Sikasil® General Purpose has excellent UV and ageing properties, and is used for all common sealing jobs, both inside and outside, including:

- Roofing and flashings
- Around windows
- Control joints
- Around vents and openings
- Sealing cavities
- Bathrooms and kitchens

Sikasil® General Purpose is highly flexible and has good adhesion to a wide variety of common building surfaces including:

- Anodised and powder coated aluminium
- Concrete, bricks and terracotta
- Painted surfaces
- Glazed concrete and clay roofing tiles
- Ceramic tiles
- Sheet metal and flashings
- Precoated metal roofing

- Copper, brass, galvanised metal
- Glass
- Porcelain whiteware and fittings
- Mill finish aluminium
- Rigid PVC, acrylics, polycarbonates
- Wood

CHARACTERISTICS / ADVANTAGES

- Highest quality, non-sag
- Excellent adhesion to a wide range of substrates
- Highly elastic +/-25%
- Excellent UV resistance
- Non-corrosive
- Fast curing
- 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 only
Shelf Life	18 months from date of production when stored according to conditions stated below.
Storage Conditions	Store in cool, dry conditions in original unopened containers.
Density	1.02 g/cm ³ (at 20°C) (DIN 51757)

Shore A Hardness	~ 22	(ISO 868)
Tensile Strength	~ 0.70 N/mm ²	(ISO 8339)
Modulus of Elasticity in Tension	~ 0.35 N/mm ² (at 100% elongation)	(ISO 8339)
Elongation at Break	300 %	(ISO 8339)
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 6 mm. For joints between 6 – 12 mm wide, a seal depth of 6mm is recommended. For joints greater than 12mm wide, a width to depth ratio of 2 : 1 is recommended.	
Ambient Air Temperature	Application temperature: + 5°C to + 40°C.	
Curing Rate	1 day: 2 mm (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.
- 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.
- Not recommended for structural glazing or insulated glazing applications.
- Not suitable for food contact applications.
- Sikasil® General Purpose 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.

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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