

# PRODUCT DATA SHEET

## Sikasil®-702

### PREMIUM NEUTRAL CURE MULTI-PURPOSE PURE SILICONE SEALANT

#### DESCRIPTION

Sikasil®-702 is a premium grade one-component neutral curing silicone sealant with good adhesion, elasticity and weatherability for all trade and home internal and external sealing applications.

Sikasil®-702 is easy to apply does not contain any fillers and cures through the absorption of atmospheric moisture to form a tough flexible waterproof seal.

#### USES

Sikasil®-702 All Purpose is suitable for:

- Kitchens & Bathrooms
  - Basins
  - Baths
  - Toilets
  - Shower screens & tiled wet areas
  - Benchtops & Around splashbacks
  - Roofs & Gutters including polycarbonate
  - Around plumbing fixtures and penetrations
  - Sealing windows & door frames
  - General interior & exterior sealing
- *Not suitable for natural stone, some porous materials and copper*

#### FEATURES

- No fillers
- Neutral cure
- Non-corrosive
- Interior & exterior use
- Mould resistant
- Good adhesion to most common building materials including: glass, ceramic, painted surfaces, concrete, wood, polycarbonate, most metal & most plastic
- High movement capability  $\pm 25\%$
- Very easy to apply & fast curing
- Excellent temperature resistance (-40°C to +150°C)

#### SUSTAINABILITY

- Green Building Council of Australia Green Star Design & As Built V1.3-13.1.1B
- Green Building Council of Australia Green Star Interiors V1.3-12.1.1B

#### CERTIFICATES AND TEST REPORTS

- AS/NZS 4020:2018 - Water Potable Approved
- Green Building Council Of Australia, Low VOC V1.3-13.1.1B & V1.3-12.1.1B

#### PRODUCT INFORMATION

<b>Composition</b>	Neutral cure silicone
<b>Packaging</b>	300ml cartridge
<b>Colour</b>	White, Off White, Alabaster, Almond Ivory, Taupe, Beige, Tile Grey, Mid Grey, Grey, Earth Grey, Bluestone, Pewter, Charcoal, Black & Translucent
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +25°C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	~1.01 kg/l
Green building	49 grams per litre as VOC content

## TECHNICAL INFORMATION

Shore A hardness	~28 (after 28 days)	(ISO 868)
Secant tensile modulus	At +23°C and 100% elongation 0.45 N/mm <sup>2</sup> At -20°C and 100% elongation 0.60 N/mm <sup>2</sup>	(ISO 8339)
Tensile strain at break	~250%	(ISO 37)
Elastic recovery	~90%	(ISO 7389)
Movement capability	± 25%	(ASTM C719)
Service temperature	Maximum	+150°C
	Minimum	-40°C

Joint design	For movement joints, the width must be at least 6 mm and should not exceed 45 mm. For non-movement joints such as connection joints in interior areas, the joint width can be less than 6 mm. The joint dimensions must be designed to suit the movement capability of the sealant. In all cases joints must be at least 6 mm deep, or have a width to depth ratio of 1 : 0.5 (for exceptions, see table below).		
	<b>Joint Width (mm)</b>	<b>Joint Depth (mm)</b>	<b>Joint Length /300 ml ctg</b>
	6	4	12 m
	9	5	6 m
	12	6	4 m
	For more information about joint design and calculations refer to the Sika document Design guideline: Dimensioning of construction joints or contact Sika Technical Services.		

Contact with water	AS/NZS 4020:2018 - Water Potable Approved
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## APPLICATION INFORMATION

Backing material	Use closed cell polyethylene foam backing rod or backing tape		
Sagging	Non Sag		
Ambient air temperature	Maximum	+40°C	
	Minimum	+5°C	
Substrate temperature	Maximum	+40°C	
	Minimum	+5°C	
	Note: The substrate temperature must be +3°C above dew point temperature and free from frost and ice.		
Curing rate	~4.0mm / 24 hours	At 23°C / 50 % R.H.	(CQP 049-2)
Skinning time	~10 minutes	At 23°C / 50% R.H.	(CQP 019-1)

## 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.

## IMPORTANT CONSIDERATIONS

- Sikasil®-702 cannot be overpainted.

- When applying sealant into a previously silicone sealed joint, ensure all residue is removed from joint.
- 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 must be tested for compatibility prior to application.
- Do not use on pre-stressed polyacrylate and polycar-

bonate as it may cause environmental stress cracking (crazing).

- Do not use on copper.
- Do not use Sikasil®-702 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 for joints under water pressure or permanent water immersion.
- Do not use Sikasil®-702 in totally confined spaces as it requires atmospheric moisture to cure.
- Do not use for medical or pharmaceutical applications.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.

## 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 the following priming and/or pre-treatment procedures must be followed, primers and activators are adhesion promoters and not an alternative to improve poor preparation/cleaning of the joint surface. The substrate should be of sufficient strength to withstand the stress induced by the sealant during movement. Use techniques such as wire brushing, grinding, grit blasting or other suitable mechanical methods to remove all weak substrate material. Repair all damaged joint edges with suitable Sika® repair products.

**IMPORTANT:** Avoid excessive application of primer causing puddles. Refer to Product Data Sheets for necessary flash off times.

### NON-POROUS SUBSTRATES

#### **Aluminium, anodised aluminium, stainless steel, galvanised steel and glazed tiles**

- Lightly roughen the surface with a fine abrasive pad.
- Clean the surface.
- Pretreat the surface using Sika® Aktivator-205 applied with a clean cloth.

#### **Other metals, such as brass, bronze, and titanium-zinc**

- Lightly roughen the surface with a fine abrasive pad.
- Clean the surface. Pretreat the surface using Sika® Aktivator-205 with a clean cloth.
- Allow a waiting time.
- Apply Sika® Primer-3 N by brush.

### **Float glass, coated glass and Powder-coated metals**

- Clean the surface.
- Pretreat the surface using Sika® Aktivator-205 applied with a clean cloth.

### **PVC**

- Clean the surface.
- Pretreat the surface using Sika® Aktivator-205 applied with a clean cloth.

### **POROUS SUBSTRATES**

#### **Concrete, aerated concrete and cement based renders, mortars and bricks.**

- Prime surface using Sika® Primer-3 N applied by brush.

### **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.

#### **Joint Backing**

After the required substrate preparation, insert a suitable backing rod to the required depth.

#### **Priming**

If required, prime the joint surfaces as recommended in substrate preparation.

#### **Application**

Sikasil®-702 is supplied ready to use. Prepare the end of the cartridge / foil pack before or after inserting into the sealant gun then fit the nozzle. Extrude Sikasil®-702 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 tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. Do not use tooling products containing solvents.

### **CLEANING OF EQUIPMENT**

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® Cleaner-350H.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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.

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**Product Data Sheet**

Sikasil®-702

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