

PRODUCT DATA SHEET

SikaSeal®-190 N Silicone

HIGH FLEXIBILITY NEUTRAL CURE SANITARY SILICONE SEALANT

DESCRIPTION

SikaSeal®-190 N Silicone is a one-component, neutral curing, low odour silicone sealant with excellent adhesion and is suitable for elastic joint sealing. SikaSeal®-190 N Silicone is easy to apply and cures with atmospheric moisture to form a high performance tough flexible mould resistant seal for internal and external applications in movement and connection joints. SikaSeal®-190 N Silicone is available in a range of complimentary colours for SikaCeram®-690 Elite and SikaCeram®-880 Easy Epoxy.

USES

- Kitchens & Bathrooms
- Showers & Tiled areas
- Benchtops & Basins
- Baths & Toilets
- Movement & Connection joints
- Around Splashbacks
- Around plumbing fixtures and penetrations
- General interior & exterior sealing around the home

FEATURES

- Neutral cure
- Excellent adhesion to common construction materials: glass, enamel, porcelain, ceramic, tile, aluminium, concrete and grouts
- Non-corrosive
- Non-sag
- Easy tooling characteristics
- Mould resistant
- Fast curing
- Low VOC content
- High movement capability $\pm 50\%$
- High temperature resistance (-40°C to $+150^{\circ}\text{C}$)
- See Important Considerations below prior to use, Not suitable for all metal and natural stone substrates

CERTIFICATES AND TEST REPORTS

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

PRODUCT INFORMATION

Composition	Neutral cure silicone
Packaging	300ml cartridges
Colour	White, Jasmin, Jurra Beige, Havana, Silver Grey, Manhattan, Grey, Ash, Platinum Grey & Anthracite
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between $+5^{\circ}\text{C}$ and $+25^{\circ}\text{C}$. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	$\sim 1.4 \text{ kg/l}$ (ISO 1183-1)

Green building	Green Star Design & As Built V1.3-13.1.1B Green Star Interiors V1.3-12.1.1B
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TECHNICAL INFORMATION

Shore A hardness	~35 (after 21 days)	(ISO 868)
Tensile strength	~0.6 MPa	(ISO 37)
Secant tensile modulus	~0.50 N/mm ² at 100% elongation (23 °C)	(ISO 8339)
Movement capability	± 50%	(ASTM C719)
Service temperature	Maximum Minimum	+150°C -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 more information about joint design and calculations refer to the Sika document Design guideline: Dimensioning of construction joints or contact Sika Technical Services.	
Elongation at break	~400%	(ISO 37)
Ambient air temperature	Maximum Minimum	+40°C +5°C
Substrate temperature	Maximum Minimum	+40°C +5°C
	Note: The substrate temperature must be +3°C above dew point temperature and free from frost and ice.	
Curing rate	~3.5mm / 24 hours	At 23°C / 50 % R.H. (CQP 049-2)
Skinning time	~20 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

- When applying sealant into a previously silicone sealed joint, ensure all residue is removed from joint.
- SikaSeal®-190 N Silicone cannot be overpainted.
- Do not use on natural stone.
- Do not use on bituminous substrates, natural rubber or 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.
- Pre-test prior to use on prestressed polyacrylate and polycarbonate as it may cause environmental stress cracking (crazing).
- Pre-test in an inconspicuous area prior to use on porous material such as concrete to ensure the product does not stain the substrate.
- Do not use SikaSeal®-190 N Silicone 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, joints under water pressure or permanent water immersion.
- Do not use SikaSeal®-190 N Silicone in totally confined spaces as it requires atmospheric moisture to cure.
- 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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and free from oils, grease, dust, cement laitance and loose or friable particles. Remove all dust, loose and friable material from all surfaces before application of activators, primers or sealant. SikaSeal®-190 N Silicone adheres without primers and/or activators. 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.

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 lint-free paper towel.

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 lint-free paper towel.
- 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 lint-free paper towel.

PVC

- Clean the surface.
- Pretreat the surface using Sika® Aktivator-205 applied with lint-free paper towel.

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. Avoid excessive application of primer causing puddles at the base of the joint. Refer to Product Data Sheets for necessary flash off times.

Application

SikaSeal®-190 N Silicone is supplied ready to use. Prepare the cartridge, insert into the sealant gun and fit the nozzle, trim nozzle to suit joint width. Extrude sealant 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 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

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