

PRODUCT DATA SHEET

Davco[®] N Silicone

1-COMPONENT NEUTRAL CURE SANITARY SILICONE SEALANT

DESCRIPTION

Davco[®] N Silicone is a one-component, neutral curing, low odour silicone sealant with excellent adhesion and is suitable for elastic joint sealing. Davco[®] N Silicone is easy to apply and cures with atmospheric moisture to form a high performance tough flexible mould resistant waterproof seal.

USES

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

FEATURES

- Neutral cure
 - Excellent adhesion to most common construction materials such as: glass, enamel, ceramics, tiles, most metal*, most plastic, rubber, concrete and grouts
 - Non-sag
 - Easy tooling characteristics
 - Mould resistance
 - Fast curing
 - Movement capability $\pm 50\%$
 - High temperature resistance (-40°C to +150°C)
- *Not for use on all metal and natural stone substrates i.e. copper.
- See Important Considerations below prior to use.

TECHNICAL INFORMATION

Shore A hardness	~47 (after 28 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	$\pm 50\%$	(ASTM C719)
Service temperature	-40 °C to +150 °C	
Joint design	The joint dimensions must be designed to suit the movement capability of the sealant. For joint widths more than 10 mm and less than 20 mm, the minimum joint depth is 10 mm. For larger joints, contact Sika Technical Services for additional information.	
Elongation at break	~ 750%	(ISO 37)

PRODUCT INFORMATION

Composition	Neutral cure silicone
Packaging	300ml cartridges
Shelf life	12 months from date of production if stored in undamaged and unopened original sealed containers, and if the storage conditions are met.
Storage conditions	Store in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.
Colour	White, Black, Gunmetal, Light Grey, Mocha
Density	~1.4 kg/l (ISO 1183-1)

APPLICATION INFORMATION

Ambient air temperature	+5 °C min / +40 °C max
Substrate temperature	+5 °C min / +40 °C max. Minimum +3 °C above dew point temperature
Curing rate	Approximately 3~4mm per 24 hours @ 23 °C / 50% r.h.
Skimming time	~ 20 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.

IMPORTANT CONSIDERATIONS

- 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 (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Davco® N Silicone 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 Davco® N Silicone have to be tested for compatibility prior to application. For specific advice contact Sika technical services.
- Pre-test should be performed 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 in application on porous material such as concrete to ensure the product does not stain the substrate.
- Do not use Davco® 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.
- Do not use for joints under water pressure or permanent water immersion.
- Do not use Davco® N Silicone in totally confined

- spaces as it requires atmospheric moisture to cure.
- Do not use for medical or pharmaceutical applications.

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

Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals or glazed tiles have to be cleaned and pre-treated using Sika® Aktivator-205, wiped on with a clean towel. Before sealing, allow a flash-off time of > 15 minutes (< 6 hours). Other metals, such as copper, brass and titanium-zinc, also have to be cleaned and pre-treated using Sika® Aktivator-205, wiped on with a clean towel. After the necessary flash-off time, use a brush to apply Sika® Primer-3 N and allow a further flash-off time of > 30 minutes (< 8 hours) before sealing the joints. PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a flash-

off time of > 30 minutes (< 8 hours).

Porous substrates

Concrete, aerated concrete and cement based renders, mortars and bricks shall be primed using Sika® Primer-3 N applied with a brush. Before sealing, allow a flash-off time of > 30 minutes (< 8 hours).

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

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 to avoid causing puddles at the base of the joint.

Application

Davco® 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.

Sika Australia Pty Limited

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48

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.

Product Data Sheet

Davco® N Silicone

November 2024, Version 01.01

02051403000000277