

N-40 GP Silicone Sealant

Neutral Curing, Anti-Fungal, GP, Sanitary Silicone Sealant

Description

Ideal for use in Roofing, Around Pools, Marine, Transport, Sealing formwork, Civil and most industrial applications. High elasticity means N40 can accommodate movement up to $\pm 25\%$ of the original joint width.

In 1989, Adheseal started supplying silicone sealant in the QLD market. The lessons learnt have made N-40 the most versatile silicone sealant for use in the broadest range of applications.

It has excellent adhesion on zincalume, galvanised steel, colourbond, glass, ceramic and porcelain tiles, treated wood, PVC, aluminium and most other construction products. No building site, workshop, Ute or toolbox should be without it. Silicone N40 can handle temperature extremes from $-50\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$, all this and it's safe to use in food preparation areas.

Uses

- Construction
- Sealing electrical installations
- Marine, boat building
- Vehicle fabrication
- Shopfitting
- Plumbing and roofing water sealing
- Sign manufacture and installation
- Air conditioning
- Joint sealing in shower walls and floors
- Commercial kitchens and laundries
- Steam and spa rooms
- Permanent UV exposure

Acceptable Substrates

N-40 ideal for

- Glazed and unglazed ceramic tiles
- Enamel,
- Laminated kitchen benches
- Aluminium
- Timber
- Glass
- Porcelain
- Most common building surfaces.
- Fibreglass
- Colourbond, zincalume and galvanised metal



Benefits

- Ready to use – single pack.
- Rapid drying.
- Fire Tested AS/NZS 1530.3-1999 Smoke Developed Index of 0-1.
- Non-toxic, low VOC meets “green star” environmental criteria.
- Inhibits mould and biological growth.
- Compatible with all common building materials.
- Once cured, suitable for below-waterline applications.
- High permanent flexibility.
- Suitable for internal & external applications.
- Neutral (oxime) curing.
- Resists mould & mildew in hot and humid environments.
- Flexible silicone rubber.
- Anti-fungal (fungicide added).
- Joint movement capabilities $\pm 25\%$.
- Maintains a waterproof flexible joint.
- Low odour.
- Will not corrode galvanised/zinc-coated steel and concrete.

Adheseal: N-40 GP Silicone

Limitations

Adheseal N-40 Silicone is NOT suitable for use in the following applications: -

- Totally confined spaces, as the sealant requires atmospheric humidity to cure, it will not cure where it does not have access to atmospheric humidity.
- Aquariums
- Adhering Mirrors (High Power 609 can be used - test first)
- Structural Glazing (N-80 or N-60 Glazing silicone).
- Composite panels- (Adheseal recommends PU50FC subject to test first)
- Under Water Applications (including swimming pools)
- Some Stone (We recommend the completion of a stain testing program before using any sealant on stone)
- Horizontal walkways and trafficable areas
- Polycarbonate sheeting
- Sealant may discolour copper & brass.
- Do not clean or treat the sealant with materials, cleaning agents or solvents that may affect or discolour the sealant, particularly during product curing.
- This silicone is not paintable.

Application

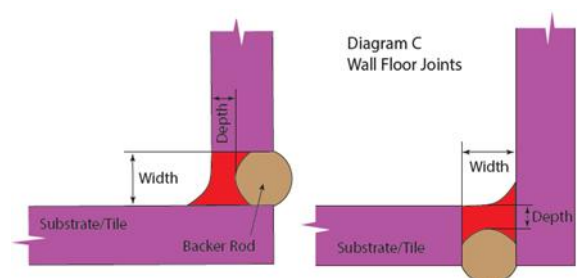
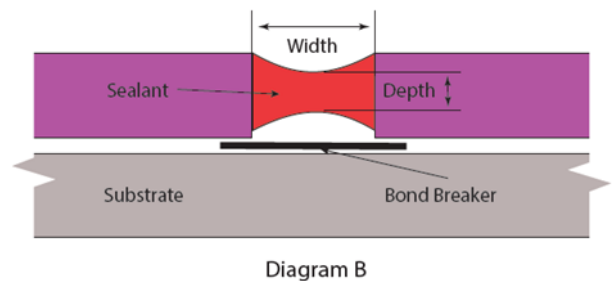
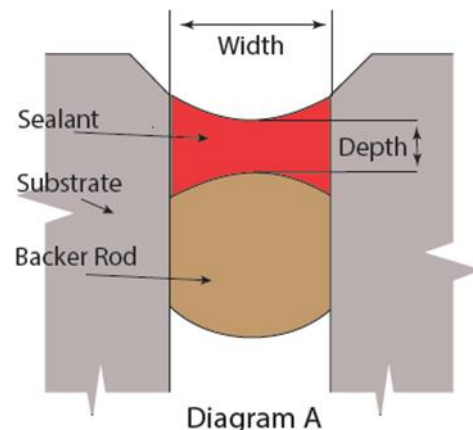
Surface preparation:

All surfaces must be structurally sound, stable, dry, clean, and free of dust, loose, flaking, friable material and free from oils, grease, form release agents, curing compounds, and any other surface contamination that may hinder adhesion. Substrate must be free from surface water and continual dampness. Concrete must be allowed to cure for at least 28 days. Failure to do so may result in mould growth, poor adhesion and subsequent delamination. Use the two-wipe process for impervious substrates. Ensure the cloths are clean and moistened with a suitable cleaner/solvent such as Acetone or 100% White Spirits and changed frequently. To achieve a neater finish and to avoid getting excessive silicone on the tiles or stone, mask joint edges.

Priming: Adhesion test is recommended. Where the use of Primer is necessary, it must be applied with a small brush onto the appropriate areas of the joints and left to dry for several minutes to allow the solvent to evaporate, 50A for non-porous & Everflex Supaprime for porous substrates.

Sealant Joint Design:

Where possible, the silicone should be at a 2:1 ratio (width:depth), Diagrams A & C. For internal joints, the width and the depth of the joint should be a minimum of 5mm, and for external joints, 10mm. Maximum joint width is 30mm and depth 15mm. For joints greater than 10mm deep, a backing rod should be used. Use a backing rod 25% larger than the joint width to control the depth of the joint where required. The silicone should only be fixed to two surfaces to allow movement. Hence, on flat joints, use a polyethylene tape or release agent to prevent a 3-sided adhesion of the silicone, Diagram B.



Width	Depth
5-10mm	As the width min 5mm
10mm	5-8mm
15mm	7-10mm
20mm	10mm
25mm	12mm

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N-40 Installation:

Apply at a temperature between 5°C and 40 °C. Cut nozzle at a 45° angle to the desired thickness. Cut the opening on the cartridge and fix the nozzle. Insert the cartridge into the caulking gun. Hold the gun at a 45° angle with the nozzle in contact with both sides of the joint. Apply by pushing sealant ahead of the nozzle, thus ensuring sealant is being pushed firmly into place, in a steady, continuous motion, ensuring good contact with both sides of the joint to achieve optimum adhesion. Tool off with a moistened spatula to finish the joint smoothly before the skin forms, approximately 15 minutes. While the silicone is still wet, clean off any excess. If joint edges have been masked, remove tape whilst the sealant is still wet. If the silicone has dried on the surface, clean with white spirit solvent to soften the silicone, then scrape off with a blade. Do not paint over the silicone. The incompatibility of some substrates may cause discolouration of the sealant, poor sealant adhesion or long-term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials may occur.

Coverage

Coverage will vary according to joint width and depth, as well as the type and method of application. The figures below can be used as a guide for:

Adheseal Sealant Calculator				
Joint Size mm	M per ctg	M Per ssg	M per Lt	
6 X 6	8.3	16.7	27.78	
10 X 6	5.0	10.0	16.67	
10 X 10	3.0	6.0	10.00	
12 X 12	2.1	4.2	6.94	
15 X 8	2.5	5.0	8.33	
15 X 15	1.3	2.7	4.44	
20 X 10	1.5	3.0	5.00	
20 X 20	0.8	1.5	2.50	
25 X 12	1.0	2.0	3.33	

Triangular Joint Beads	
Joint Size mm Width x Height	Lm Per Sausage
5x5mm	50
10x10mm	12
10x15mm	6
10x20mm	3

Cure Time.

Allow approximately 20 minutes skin time, cure time 2mm per day at 25 °C & 50% humidity. Please note that all cure times vary depending on atmospheric conditions and porosity of the substrate.

Clean Up.

While the product is still wet, tools and spills can be cleaned with white spirit. Once cured, the product can be removed by mechanical means.

Packaging

300ml cartridge, in cartons of 20.

Colours



Stark White (9003) SILADN40WH/CTG

Mid Grey (7038) SILADN40MG/CTG

Black (9011) SILADN40BL/CTG

Translucent SILADN40TR/CTG

Aluminium Grey (9023) SILADN40ALGR/CTG

Numbers in brackets closest RAL colour

Note:

Before application, refer to all relevant TDSs and SDSs' detailed product specifications & application instructions.

Specification:

The information contained in this TDS is typical but does not constitute a full specification, as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement. The applicator or contractor must use their skill, knowledge, and experience to carry out additional works as may be necessary to meet the requirements of the project. Specifications for specific projects should be sought from the company in writing.

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Physical Properties	
Type of product	Polysiloxanes
Curing system	Oxime
Density (specific gravity)	Trans 1.03
Shore A hardness	20
Elongation at break (ISO 8339)	300%
Application temperature	+5°C to +35°C
Storage: Cool & Dry between	10°C and 35°C
Temperature Resistance	-50°C to 150°C
Fire Tested AS/NZS 1530.3-1999	Smoke Developed Index of 0-1.
VOC	43gm/lit Conforms to: Californian Bureau of Air Quality Management Rule 1168
Best Before	18-24 months in original packaging
Clean up	Uncured: white spirit or turpentine
Movement Capability	+/-30%
Elastic recovery (/SO 7389) >90%	>90%
Colours	White, Black, Mid Grey, Aluminium Grey & Translucent

Health and Safety

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: First aid is not generally required. If in doubt, contact a poisons Information Centre or a doctor.

Skin Contact: Gently brush away loose particles. Irritation is unlikely. However, if irritation occurs, flush with lukewarm gentle flowing water for 5 mins or until chemical is removed.

Eye contact: Gently brush away loose particles. No effects expected. However, if irritation occurs, flush with lukewarm gentle flowing water for 5 mins or until chemical is removed. Obtain Medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do not induce vomiting wash mouth with water and give some water to drink. If symptoms persist contact a Poisons Information Centre or a Doctor

PPE for First Aiders: Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Notes to physician: Treat symptomatically. Effects may be delayed. Treat symptomatically.

WARNING



Conditions of Use and Disclaimer: The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided, and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workman-like manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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