

Technical Data Sheet

S100 Designer Silicone

Neutral Curing Anti-Fungal Sanitary Silicone Sealant

Description

S100 Neutral Curing Anti-Fungal Sanitary Silicone Sealant which is ideal for use in tiling applications, due to the superior bond achieved when being used on glazed surfaces, such as ceramic tiles. With its high elasticity, S100 is able to accommodate movement up to 25% of the original joint width. It is exceptionally easy to apply and smooth, curing to form a permanently elastic and dustproof joint seal. Forming a flexible gasket between different elements in the construction, mechanical engineering, shipbuilding, vehicular, manufacturing, etc industries. S100 is UV stable and colour fast making it suitable for use in outdoor applications.

Uses:

- S100 is ideal for applications such as movement joints (between tiles); corners (tiled wall and floor); connecting joints between tiled surface and bench tops, bath edges, cupboards and splashbacks.
- Sealing joints in wall and floor coverings of ceramic and cement, provided they are not subject to heavy abrasion.
- Sealing joints between sinks or sanitary ware and ceramic tiles in kitchens, bathrooms and showers with colours coordinated with the grouts.
- Sealing materials of different thermal exposure coefficients.
- Glass Partitions
- Ceramic Tiles
- Vitreous Enamel
- Most Laminated Surfaces
- Fibreglass
- Rimless Sinks

Acceptable Substrates

S100 ideal for

- glazed and unglazed ceramic tiles
- enamel,
- laminated kitchen benches
- aluminium
- glass
- porcelain
- sanitary acrylics.
- Fibreglass



Benefits:

- Ready to use – Single pack.
- Rapid Drying
- 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 galvanized/zinc coated steel or attack concrete.

Adheseal

The Adhesive and Sealant Specialists

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Limitations.

Adheseal S100 Silicone Neutral Cure 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 Hi Flex Construction subject to test first)
- Under Water Applications (including swimming pools)
- Natural Stone (We recommend the completion of a stain testing program before using any sealant on stone) S100 is recommended for marble, granite (after stain test).
- 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 poor adhesion and subsequent delamination. Use the two-wipe process for impervious substrates. Ensure the cloths are clean and changed frequently, and use a suitable cleaner/solvent such as, ??? or 100% White Spirits. To achieve a neater finish and to avoid getting silicone on the tile or stone, mask joint edges with tape.

Priming:

Test for adhesion 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 & 2001 for porous substrates.

JOINT DESIGN

Where possible, the silicone should be at a 2:1 ratio (width:depth). For internal joints the width and the depth of the joint should be minimum 5mm, and for external joints 10mm. Maximum joint width is

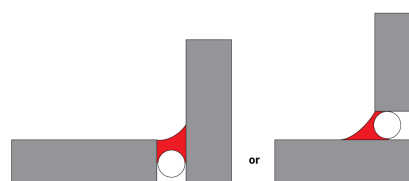
30mm and depth 15mm. For joints greater than 10mm deep a backing rod should be used. Use a closed cell polyethylene-backing rod 25% larger than the joint width, to control the depth of the joint where required, the silicone should only be fixed to two surfaces to allow movement. Hence on flat joints use a polyethylene tape or release agent to prevent a 3-sided adhesion of the silicone.

Width	Depth
5-10mm	As width min 5mm
10mm	5-8mm
15mm	7-12mm
20mm	10-14mm
25mm	12-16mm

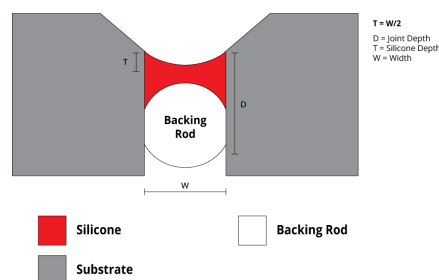
Floor Joint



Floor to Wall Joint



Optimum Joint Design



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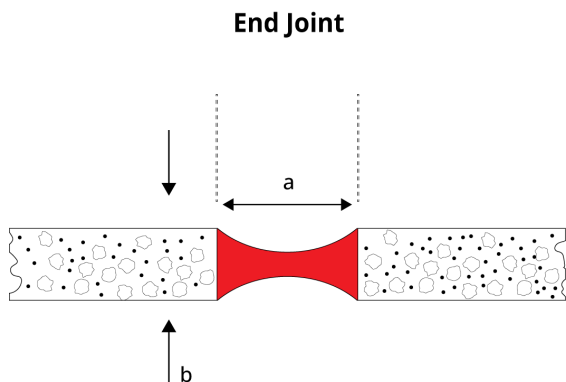
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S100 Installation:

Apply at temperature between 5°C to 40°C. Cut nozzle at 45° angle to desired thickness. Cut opening on cartridge and fix nozzle. Insert cartridge into caulking gun. Hold gun at 45° angle with nozzle in contact with both sides of joint. Apply by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place, in a steady continuous bead ensuring good contact with both sides of the joint to achieve the required adhesion. Tool off with a moistened spatula to finish the joint smoothly before the skin forms, approximately 5 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 sealant, poor sealant adhesion or long-term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs.

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:

Flat Joints	
Joint Size mm Width x Depth	Lm Per Cartridge
5x5mm	12
10x5mm	6
20x10mm	1.5
25x12mm	1.1

Triangular Joints	
Joint Size mm Width x Height	Lm Per Cartridge
5x5mm	25
10x10mm	6
10x15mm	3
10x20mm	1.5

Colours

Stark White (9003), Sunscreen (9010), Off White (9002), Lydia Grey (7047), Eva Grey (7035), Tile Grey (7044), Travertine (7032), Ashville Grey (7038), Koala Grey (7037), Bluestone (7037), Dark Grey (7043), Charcoal (7016), Not Black (7021), Mayo (1015), Havana (1015), Ivory (1013), Beige (1019), Caramel (1011), Dark Ochre (8011) & Translucent.

Number in brackets indicates closest RAL colour.



Cure Time.

Allow approximately 10 minutes skin time, 2mm per day cure time @25dg & 50% humidity. Please note all cure times vary depending on atmospheric conditions and porosity of the substrate.

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Clean Up.

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

Packaging

300ml cartridge, In cartons of 20.

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
VOC	43gm/lit Conforms to: Californian Bureau of Air Quality Management Rule 1168
Shelf life	12 months in original packaging
Clean up	Uncured: white spirit or turps
Movement Capability	+/-30%
Elastic recovery (/SO 7389) >90%	>90%
Colours	Stark White, Off White, Travertine, Tile Grey, Lydia Grey, Eva Grey, Ashville Grey, Koala Grey, Dark Grey & Translucent.

Note:

Before application, refer to all relevant TDS's and SDS's 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 re-

quirements 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. Specification for specific projects should be sought from the company in writing.

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.

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



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