

ALL PURPOSE SILICONE



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PRODUCT DESCRIPTION

ALL PURPOSE SILICONE SEALANT is a one part, neutral cure, high quality silicone sealant designed for multi-purpose weatherproof and waterproofing application. It has good gun nability even in extreme weather conditions and cures at room temperature by reaction with moisture in the air to produce a durable and flexible silicone rubber. It has excellent primerless adhesion to most construction materials.

Features:

- Ease of application – ready to use as supplied, with common caulking guns.
- Neutral Cure – non-corrosive to sensitive substrates and suitable for uses on many non-porous, porous & alkaline substrates.
- Good adhesion – on curing will form a strong bond to most common building components without the use of primer; including typical substrates of steel, glass, anodized aluminum, PVF2 coated surfaces and concrete
- Good weatherability and virtually unaffected by sunlight (UV), wind, frost, rain, snow, ozone, or temperature extremes.

ALL PURPOSE SILICONE SEALANT is a chemically stable, one part, ready to use material that has the consistency remains uniform over a wide range of temperatures -20°C to +50°C. This allows and facilitates the sealant installation to be applied easily at most working temperatures.

Cured sealant will not harden in cold climate or soften at high heat condition, the service temperature range is from -40°C to +150°C. It will not become brittle, tear or crack, and stays flexible indefinitely.



ALL PURPOSE SILICONE



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Key Performance Properties

- Silicone Sealant (Neutral Cure)
- One part Ready to Use
- Fast Curing
- Outstanding Weather ability
- UV and weather resistant – Immune to the damaging effects of the sun
- Excellent Adhesion
- Easy Application

TYPICAL PROPERTIES

Test Method	Test Parameter	Unit	Result	Translucent	Pigment- ed
As Supplied-Tested at 23°C and 50% RH					
CTM 101	Specific Gravity	g/ml	0.96		1.42
ISO 7390	Flow (sag or slump)	mm	0		0
ASTM C603	Extrusion Rate	ml/minute	270		102
CTM 004	Working Time	minute	3		25
CTM 001	Tack-free Time	minute	7		30
CTM 003	Curing Speed, average	mm/day	2		2
As Cured-after 21 days at 23°C and 50% RH					
ASTM C661	Durometer Hardness, Shore A	Points	20		40
ISO 9047	Movement Capability	%	± 20		± 20
ISO 8339	Tensile/Modulus at 50% Elongation	Mpa	0.23		0.34
	Tensile/Modulus at 100% Elongation	Mpa	0.3		04
	Ultimate Tensile Strength	Mpa	0.36		0.48
	Ultimate Elongation at Break	%	320		420

ASTM – American Society for Testing and Materials

CTM – Corporate Test Method; copies of CTMs are available upon request

ISO – International Standardisation Organisation

ALL PURPOSE SILICONE



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TYPICAL PROPERTIES

ALL PURPOSE SILICONE SEALANT is designed for sealing non-structural curtain wall joints, facade joints and system, EIFS, panels and metal cladding, expansion and movement joints, windows and perimeter joints. The product can be used for both new projects and remedial works.

The sealant forms a durable, elastomeric, weather-tight and water-tight bond with most building materials in any combination, in particular; glass, ceramics and porcelains, stones (granite / marble / sandstone / slate), masonry surface, tiles, wood, steel, anodized aluminium and painted surface. Primer is not required in most cases. It can be used for roofing construction materials such as galvanized and zinc-coated steel, aluminium and some plastics.

LIMITATIONS

ALL PURPOSE SILICONE SEALANT is not recommended for use in structural glazing. Contact your local Authorized Distributor or our Technical Services Department regarding Structural Glazing Application.

ALL PURPOSE SILICONE SEALANT should not be applied:

- To building materials that bleed oils, plasticizers or solvents.
- To frost-laden or wet surface; surface that is oily, greasy, wet, dirt or unsound.
- When surface temperatures exceed +50°C or in totally confined spaces.
- In sub-graded applications or joints that will be subject to continuous immersion in water.
- Where painting or post finishing of the sealant surface is required.
- The suitability of this product, for each intended use or application must be determined by the purchaser prior to acceptance.

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COLOURS

ALL PURPOSE SILICONE SEALANT is available with the following comprehensive Colour Schemes (Note: actual sealant colour in use may differ to colour sample

ALL PURPOSE SILICONE



DO IT ONCE DO IT RIGHT

due to batch variations and production tolerance): Standard Colours:
Translucent, White, Grey, Black

PACKAGING

ALL PURPOSE SILICONE SEALANT is supplied with the following Packing Schemes:
300ml recyclable plastic cartridge,

GOOD PRACTICE IN WEATHERSEAL JOINT

A thin bead of silicone rubber will accommodate more movement than a thick bead. For movement joints where excessive movement is expected, sealant bead thickness of ALL PURPOSE SILICONE SEALANT should be no thicker than 12mm and no thinner than 6mm.

Ideally, the ratio of joint width to depth of sealant should be about 2:1.

As a basic and good general practice the designed joint width must be at least twice the total anticipated joint movement, and should be four times the anticipated movement due to construction tolerances and material variations.

Joints should be designed to allow for installation and retention of non-gassing backing material during the application and curing of ALL PURPOSE SILICONE SEALANT.

Small movement building joints should allow for a minimum joint width of 6mm when larger movement is expected. The joint width should be based on the calculated joint movement.

Plastic panels usually require a larger than usual joint dimensions due to the high coefficient of thermal expansion of plastics, primer may be required for plastic surface.

ALL PURPOSE SILICONE SEALANT is not intended for use as Silicone Structural Glazing (SSG), and for which a Project Management Services (Total Quality System) Program ought to implement. Contact your local Authorized Distributor for further information on the Products and other Technical Details.

ALL PURPOSE SILICONE



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INSTALLATION

Surface Preparation

Clean all joints, glazing pockets, remove all debris, foreign substance and others contaminants such as oil, grease, dust, water, frost, surface dirt, old sealants or glazing compounds, protective coatings and loosen substance from the surface where the sealant is to be applied.

Metal, plastic, glass and non-porous surface should be cleaned with appropriate solvent using two cloth cleaning method. In all cases solvent should be wiped on and removed with separate clean, white lint-free cloths. Detergent or soap water treatments are not recommended.

Test compatibility for porous substrates; contact your local Authorized Distributor or our Technical Services Department for further information.

Masking

Areas adjacent to joints to be sealed may be masked to give neat sealant lines and prevent substrate contamination. Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Masking product should be removed immediately after tooling.

Priming

Primer is usually not required for ALL PURPOSE SILICONE SEALANT, for glass substrates. However if the use of primer is needed, apply a proprietary primer to the joint surface using a clean lint-free cloth and allow drying before sealant application. Do not brush or sprays apply; over dosage of primer may give adverse effect on adhesion. Prior adhesion tests should be established to determine need for the type of primer.

Backing Materials

Non-gassing & non-absorbing foam rod such as SOF® Rod is recommended backing materials for most joints; use polyethylene tape such as Tesa 476 series for shallow joints. Backing materials or Bond Breaker Tapes will prevent the sealant from three-side bonding and allow the rubber to stretch freely, use compatible backing materials and setting block.

ALL PURPOSE SILICONE

**DO IT ONCE DO IT RIGHT****Method of Application**

Install backing material or joint filler, setting blocks, spacer shims and tapes as specified. Apply ALL PURPOSE SILICONE SEALANT in a continuous operation using a positive pressure adequate to properly fill and seal the joint. Tool the ALL PURPOSE SILICONE SEALANT with light pressure to spread the sealant against backing material and the joint surface before a skin forms. A tool with the convex profile is recommended to keep the sealant within the joint. Do not use soap or water as a tooling aid. Remove masking tape as soon as the bead is tooled.

In glazing, tool the sealant applied at the sill (at straight edge splayed angle) so that precipitation and cleaning solutions will not pond.

STORAGE AND SHELF LIFE

When stored in original unopened container at or below +25°C, ALL PURPOSE SILICONE SEALANT has a shelf life of 12

months from date of production or as indicated on the packing. Stored in shaded, cool and dry places.

HANDLING AND SAFETY INFORMATION

The suitability of the products, for each intended use, must be determined by the purchaser prior to acceptance. For technical assistance and services, contact your local Authorized Distributor or our Technical Services Department.

Before handling, read product and material safety data sheets for safe use and health hazard information. The material safety data sheet (MSDS) is available from your local Authorized Distributors.

Product Information – Refer to the Technical Data Sheet (TDS);

Material Handling – Refer to the Materials Safety Data Sheet (MSDS).

Disclaimer

CW Brands Pty Ltd believes that the information in this technical data sheet is an accurate description of the typical uses of the product. The data and statements are based on our research and development work and is to the best of our knowledge true and accurate. The user must ensure of the product(s) in their application prior to use in particular to determine its performance, efficiency and safety. The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty.

ALL PURPOSE SILICONE



Global Sealants and Adhesives

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The manufacturer is not responsible for any loss or damage arising from incorrect usage. Products conform solely to the information contained in this and other related CW Brands Pty Ltd publications.

CW Brands Pty Ltd reserves the right to make changes to specifications and information related to the products at any time. Users are asked to check that the literature in their possession is the latest issue. Statements contained herein should not be considered as a warranty of any kind, expressed or implied in describing the performance or suitability of the product for a particular application. No liability is accepted for infringement of any patents or any other intellectual property right.