

## ELASTIC ADHESIVE & SEALANT

[www.gripset.com](http://www.gripset.com)

TECHNICAL DATA SHEET

[techenquiries@gripset.com](mailto:techenquiries@gripset.com)

### Description

Gripset SB is an innovative one component adhesive/sealant based on technology that is free of isocyanates, solvents and halogens. The unique properties allow for superior adhesion, flexibility and versatility in a wide range of applications. Specialised applications include it's partnership with the Elastoproof sealing system for adhering to metal and plastic substrates and sealing edges, overlaps etc.

### Features & Benefits

- \* Environmentally safe and user friendly – free of isocyanates, solvents and halogens
- \* Permanently flexible and elastic
- \* Over-paintable. Can be painted while in a wet state and after complete curing
- \* Outstanding adhesion properties to numerous surfaces
- \* No bubble formation
- \* Excellent adhesion on damp substrates
- \* Primerless adhesion on almost every substrate
- \* Excellent weathering resistance
- \* Stable and non-shrinking
- \* Fast curing & odourless
- \* Excellent colour stability and UV resistance
- \* Easy tooling providing excellent surface appearance

### Application

- \* Gripset SB is suitable for commercial, industrial, automotive, marine and general applications.

### Uses & Substrates

Powerful and versatile adhesive/sealant for jobs requiring sealing and bonding properties; Bonds to a variety of surfaces, including:

- \* Metals and sheet steel (galvanised, plated and painted)
- \* Untreated or anodised aluminium
- \* Brass, copper and stainless steel
- \* Glass and GRP (glass reinforced products)
- \* Wood, Concrete and cement based materials
- \* Many rigid plastics

#### Also suitable for:

- \* General sealing and bonding building applications
- \* Sealing of floor joints and low movement wall joints
- \* Connecting joints in sheet metal fabrication and duct work
- \* Sealing and bonding in automotive and vehicle body work
- \* Marine and general fabrication
- \* Assembly of materials where a tough flexible rubber joint or powerful elastic adhesive is required.
- \* Joint abutments for typical building prefabrication & metal cladding joints
- \* Sealing and bonding of metal elements, e.g. ventilation ducts, gutters, and spouts.
- \* Elastoproof applications, when bonding to surfaces and sealing edges, overlaps etc

### Surface Preparation

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean. Smooth shiny surfaces to be roughened or etched. Rough surfaces are to be made even. Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of sealant application. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. For thorough surface preparation, refer to Gripset SC (algae and moss remover) and Gripset DG (water based oil degreaser) products. Glass, metal and other non porous surfaces must be free of any coatings and wiped clean with solvent.

### Priming

- \* Due to the outstanding adhesion properties of Gripset SB, general usage on building substrates is not required once surfaces have been appropriately prepared and cleaned. On specialised surfaces a primer may be required and in this instance Gripset Industries should be contacted for primer details.

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When using Gripset SB as an adhesive, ensure surfaces are bonded together within 10 minutes of applying product.

When using Gripset SB as a sealant, to ensure free movement of sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint. Before sealing open joints, use a suitable backing rod inside the depth of the joint before filling with Gripset SB.

Fill the prepared joint completely, taking care to not entrap air (as entrapped air may cause bubbles in the sealant). Dry tool Gripset SB immediately after applying, ensuring sealant is tooled before a skin forms. If required, water with small amount of detergent (<20% solution) can be used to help tool or smooth the required finish of the sealant. Tooling should commence within 10 minutes after applying, depending on temperature and humidity.

If masking sides of joints to form a neat finish/line, the tape must be removed before the sealant cures.

### Coverage and Consumption

If using Gripset SB as a sealant, the following bead diameters are a guide for expected length coverage per 600ml sausage

- \* 3mm bead – 80 metres/600ml sausage
- \* 5mm bead – 29 metres/600ml sausage
- \* 6mm bead – 20 metres/600ml sausage
- \* For calculating larger or unusual joint dimensions contact office of Gripset Industries for assistance

When using as an adhesive

- \* Apply Gripset SB in bead length line patterns to the surface
- \* For adhering large surface areas, in addition to bead length lines, spot beads of 5 -10mm diameter should also be applied randomly to the surface

If adhering 2 non porous items together, ensure gaps of 1-2cm between bead lines are allowed to allow air flow for curing.

### Storage

- \* 12 months in original un-opened packing at 5°C to 25°C in a cool dry place.
- \* Store out of direct sunlight.
- \* Storage temperature should not exceed 25°C for extended periods of time.
- \* Keep away from heat sources.

### Packaging

- \* 600ml (White) Sausage; Carton quantities – 20 sausages/carton

### Clean Up

- \* On hands or skin while product is wet – use soap and water. Once cured use solvent free hand cleaners.
- \* On surfaces, uncured material can be removed using methylated spirits/denatured alcohol.
- \* Areas where product has dried will need to be removed using industrial strength solvent such as Acetone or Xylol.

### Precautions

- \* Gripset SB is not designed for use in permanently immersed areas
- \* Not suitable for continuous immersion in solvents or industrial grade chemical solutions
- \* When using, best results achieved if the unit is used the same day once opened. Sealant will cure in nozzle if left for longer periods and will have to be removed
- \* Gripset SB can be over painted while wet as a “wet on wet” application
- \* A range of paints can be used over Gripset SB, however due to the wide variety of paints it is recommended to carry out a compatibility test before commencing. The office of Gripset Industries can provide further data on paint compatibility.
- \* Drying time of alkyd resin paints will increase when used over Gripset SB
- \* Do not apply when surface temperature is below 5°C or above 35°C.
- \* Avoid applying in hot conditions as warm temperatures may cause sealant to skin.
- \* Material Safety Data sheet (**MSDS**) available.
- \* For further information about this product contact technical department of Gripset Industries.

### Technical Data

<b>Shore A Hardness</b>	40
<b>Tack Free Time</b>	30 mins @ 23°C & 50% RH
<b>Cure Time</b>	2.5mm/24hrs @ 23°C & 50% RH
<b>Elongation at break</b>	> 250%
<b>Elastic modulus at 100%</b>	0.9N/mm <sup>2</sup>
<b>Tensile Strength</b>	1.8 N/mm <sup>2</sup>
<b>Elastic recovery</b>	>95%
<b>Application temperature</b>	+5°C to 35°C
<b>Temperature resistance</b>	-40°C to 90°C
<b>Chemical resistance</b>	<p><b>Good Resistance:</b></p> <ul style="list-style-type: none"> <li>• Water</li> <li>• Weak acids</li> <li>• Weak alkalis</li> </ul> <p><b>Moderate Resistance:</b></p> <ul style="list-style-type: none"> <li>• Motor oils, petrol/diesel</li> <li>• Sewage</li> <li>• Mineral oils</li> <li>• Fats &amp; vegetable oils</li> </ul> <p><b>Poor Resistance:</b></p> <ul style="list-style-type: none"> <li>• Strong acids</li> <li>• Strong alkalis</li> <li>• Organic solvents</li> <li>• Paint thinners</li> </ul>

<b>VOC Content (ISO 13741-1)</b>	Nil
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The VOC Content of Gripset SB is below the maximum VOC Content for Architectural and Interior Sealants as required by Green Star Ratings tools Education v1, Healthcare v1, Industrial v1, Multi Unit Residential v1, Office Interiors v1.1, Office Design v2, Office v3, Office As Built v2 and Retail Centre v1

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### Notes

It is recommended before commencing the application; that adhesion of products to be used (e.g. primers, membranes, coatings adhesives etc) is tested over a typical area of the prepared surface to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. Gripset Industries offers a service for pre testing adhesion to surfaces for large commercial areas or unusual substrates. For further details contact Gripset Industries.

Details contained in product data sheets are general. For any situation or items not covered in this data sheet, it is the responsibility of the applicator to check with Gripset Technical Services before commencing the application. A written confirmation will then be issued by Gripset Technical Services.

### Gripset Industries Pty Ltd

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### Product Disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Gripset Industries does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.