

Technical Data Sheet

Chemtools® Pty Ltd | Ph: 1300 738 250 (+61 2 9833 9866) | Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760
Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Rapidstick™ Zero 8510Z Gasket Sealant

PART NUMBER	SIZE
8510Z-50	50ml Tube

*Available colours and/or sizes may change without notice.

DESCRIPTION

Chemtools® Rapidstick™ Zero 8510Z is a medium strength anaerobic, specially formulated for resistance to low pressures immediately after assembly of the mating flange faces. It has excellent chemical resistance to prevent the escape of fluids and gases over the life of the connection, with no threat of shrinking, creeping, or breaking.

8510Z increases torque capacity, completely filling and eliminating surface scratches, voids, and other irregularities for a tighter and more stable seal, while maintaining minor flexibility. It can be used with or without pre-cut, pre-formed gaskets in a wide variety of applications, including valve covers, gearbox casings, cast-iron components, and water pump housings.

ABOUT RAPIDSTICK™ ZERO

Rapidstick™ Zero anaerobics represent a new generation of adhesive technology. Developed using non-hazardous, high-purity raw materials, the Zero range meets the most stringent global health and safety standards, offering a responsible alternative for both users and the environment. Through precise ingredient selection, Rapidstick™ Zero maintains the proven performance characteristics of the original Rapidstick™ line, including strength, durability, and long-term reliability. This reduced-risk range is ideal for applications requiring consistent results without compromising safety or regulatory compliance.

DIRECTIONS

For optimal results, clean all surfaces with a suitable solvent cleaner and allow to dry. If applying to inactive or less active metals, spray surfaces first with an anaerobics primer, such as *Rapidstick™ Anaerobic Adhesives Primer (Part No. 8-ADP)* to promote adhesion.

1. Apply a continuous bead to one of the mating metal faces.
2. Use suitable methods to assemble components, and tighten quickly to avoid shimming.
3. If required, run a low pressure test (up to 150 psi) to confirm a full seal has been made before the product is left to fully cure.
4. For ultimate pressure and solvent resistance allow the material to fully cure prior to use.

TECHNICAL DATA

Properties of Uncured Material

Resin	Dimethacrylate
Colour	Red
Viscosity @ 25°C	40,000 – 140,000 cps (Brookfield Spindle C @ 2.5rpm)
Gap Fill	Up to .20mm

Properties of Cured Material

Fixture Time / Handling Cure Time	< 20 minutes @ 22°C
Fixture Time with Activator	< 15 minutes
Full Cure Time	24 hours @ 22°C
Pressure Resistance	10,000 psi
Typical Breakaway Strength	6 Nm
Typical Prevailing Strength	4 Nm
Temperature Range*	-53°C to +150°C (Note: *Reduction in strength can occur above 150°C)

SHELF LIFE (UNOPENED)

Approx. 12 months from date of manufacture.

Note: This product may not perform to given specifications once shelf life has been exceeded.

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FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. As general precautionary advice, take note of the following common recommendations: Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for applicable recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, store in a cool, dry area, and do not expose to temperatures exceeding 50°C. Do not return any unused material to its original container.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.