

Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Rapidstick™ Zero 8609Z Retaining Compound

PART NUMBER	SIZE
8609Z-50	50ml Bottle

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

DESCRIPTION

Chemtools® Rapidstick™ Zero 8609Z Retaining Compound is a fast curing, high structural strength, low viscosity anaerobic, formulated to bond close fitting metal surfaces and cylindrical fitting parts with an unfaltering ultimate bond which remains stable under all levels of cyclic load stress distribution.

8609Z offers excellent retaining, sealing, and thread locking properties, and can be used in a wide variety of applications, especially interference or press fit parts, including:

- High strength retention of bearings
- Locking of keys and splines
- Bonding rotors, bushes, and sleeves to shafts
- Securing loose or worn parts

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

ASSEMBLY: For optimal results, clean all surfaces with a suitable solvent cleaner and allow to dry. If applying to inactive metals, or gaps greater than 0.2mm, spray surfaces first with an anaerobics activator to increase cure speed.

For Slip Fitted assemblies: Apply adhesive around the leading edge of the pin and the inside of the collar, and use a rotating motion during assembly to ensure good coverage.

For Press Fitted assemblies: Apply adhesive thoroughly to both bond surfaces and assemble at high press on rates.

For Shrink Fitted assemblies: The adhesive should be coated onto the pin, and the collar then heated to create sufficient clearance for free assembly.

Parts should not be disturbed until sufficient handling strength is achieved.

DISASSEMBLY: Apply localized heat to the assembly to approximately 250°C. Disassemble while hot.

TECHNICAL DATA

Properties of Uncured Material

Resin	Dimethacrylate
Colour	Green
Viscosity @ 25°C	100 – 150 cps (Brookfield Spindle 1 @ 20rpm)
Cure System	Anaerobic

Properties of Cured Material

Fixture Time / Handling Cure Time	< 20 minutes @ 22°C (Stainless Steel)
Fixture Time with Activator	< 3 minutes
Full Cure Time	24 hours @ 22°C
Gap Fill	Up to 0.12mm

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Typical Breakaway Strength, M10	15 - 40 Nm
Typical Prevailing Strength, M10	25 - 50 Nm
Temperature Range	-50°C to +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.

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.