



A NEW FORCE IN CHEMICAL MANUFACTURING

Unit 2, 14-16 Lee Holm Road
St Marys NSW 2760
Australia

Ph: 1300 738 250 (Australia)
Ph: +61 2 9833 9766 (International)
Fax: 02 9623 3670

sales@chemtools.com.au
www.chemtools.com.au

TECHNICAL DATA SHEET

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PRODUCT NAME

8222 Low Strength Threadlocker

PRODUCT RANGE

Part Number	Available Size
8222-10	10 ml
8222-50	50 ml
8222-250	250 ml



Refer to MSDS for product safety guidelines

8222 Low Strength Anaerobic Thread Locking Compound

Chemtools® 8222 is a fast curing, low strength, anaerobic thread locking compound for bonding and sealing threads, and retaining of cylindrical parts. It is highly resistant to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals.

APPLICATIONS:

- Ideal for thread locking small screws from loosening under vibration.
- Ideal for fasteners diameters of 6 mm (1/4") and smaller.
- Specifically suitable for applications such as adjustment of set screws and small diameter fasteners where easy disassembly is required.
- Meets Military specifications: MIL-S-46163 Type II Grade M

PHYSICAL PROPERTIES:

Composition	Methacrylate Ester
Appearance	Purple
Viscosity (Brookfield RVT Spindle 3 @ 20 rpm)	1,200 - 5,000 cps
Specific Gravity	1.05
Maximum Diameter of Thread/Gap Filing	6 mm (1/4")
Flash Point	> 100°C
Solvent Content	None
Shelf Life	1 year

CURING PROPERTIES:

Handling Cure Time	15 - 30 minutes
Functional Cure Time	1 - 3 hours
Full Cure Time	24 hours
Shear Strength	3 - 5 N/mm ²
Temperature Range	-55 to 150°C

Locking Torque

- Break	4 - 8 Nm
- Prevailing	2 - 4 Nm

CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22°C	100	90
Ethanol	22°C	100	100
Motor Oil	125°C	100	100
Petrol	22°C	100	100
Brake Fluid	22°C	100	100
Water/Glycol	87°C	90	80

APPLICATION INSTRUCTIONS:

Surfaces should be dry, clean, and free of any contamination. Threadlocker should be applied to the bolt in sufficient quantity to fill threads. Chemtools® 8222 performs the best in thin bond gaps. This threadlocker is specifically formulated to give controlled friction and torque/tension ratio during assembly.

STORAGE:

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 7°C to 28°C. Please do not return any unused material to its original container.

PRECAUTIONS:

This product is capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

WARRANTY:

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