



# TECHNICAL DATA SHEET

## A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

Issued: August 2020

## Rapidstick™ 8242 Threadlocker

PART NUMBER	AVAILABLE SIZE
8242-10	10ml Bottle
8242-50	50ml Bottle
8242-250	250ml Bottle

### PRODUCT DESCRIPTION

Chemtools® Rapidstick™ 8242 Threadlocker is fast curing with medium strength and specifically formulated to give controlled friction and torque/tension ratio during assembly. It is designed for plated parts and vibrating or moving components, and is ideal for fasteners with diameters between 6mm to 20mm (1/4" to 3/4").

8242 provides a chemically resistant lock and seal to threaded joints, nuts, screws, and studs, meeting 90% of all nut and bolt thread locking applications. It performs best in thin bond gaps, and can also be used for the retaining of cylindrical parts.

8242 meets Military Specifications:

- MIL-S-46163 Type II, Grade N
- MIL-S-22473E Letter Grade CVV

### DIRECTIONS (READ LABEL BEFORE USE)

All surfaces must be clean, dry, and free of dust and grease.

Apply to the bolt in sufficient quantity to fill threads.

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**SERVICE & SUPPORT**

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### TECHNICAL DATA

#### LIQUID PROPERTIES:

Composition	Methacrylate Ester
Appearance	Blue
Viscosity @ 25°C, Brookfield RVT, Spindle 3, 20 rpm	1,200 cps
Maximum Diameter of Thread/Gap Filling	20mm (3/4")
Flash Point	> 100°C
Shelf Life	2 years from the date of manufacture

#### CURED ADHESIVE PROPERTIES:

Service Temperature Range	-55°C to +150°C
Handling Cure Time	10 minutes
Functional Cure Time	1 – 3 hours
Full Cure Time	24 hours

#### MECHANICAL PROPERTIES:

Coefficient of Thermal Expansion, ASTM D696, K <sup>-1</sup>	80 x 10 <sup>-6</sup>
Coefficient of Thermal Conductivity, ASTM C177, W.m <sup>-1</sup> .K <sup>-1</sup>	0.1
Specific Heat, kJ/Kg.K	0.3

#### Breakaway Torque, ISO 10964

3/8 x 16 Steel Nuts and Bolts	8 to 17 N.m. / 70 to 150 lb.in.
3/8 x 16 Cadmium Nuts and Bolts	1 to 7 N.m. / 10 to 60 lb.in.
M10 Black Oxide Steel Nuts and Bolts	8 to 19 N.m. / 71 to 168 lb.in.

#### Prevail Torque, ISO 10964

3/8 x 16 Steel Nuts and Bolts	3 to 7 N.m. / 25 to 60 lb.in.
3/8 x 16 Cadmium Nuts and Bolts	1 to 5 N.m. / 4 to 40 lb.in.
3/8 x 16 Zinc Nuts and Bolts	1 to 4 N.m. / 10 to 40 lb.in.

#### CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1,000 hours
Acetone	22°C	100	85
Ethanol	22°C	100	100
Motor Oil	125°C	100	100
Petrol	22°C	100	95
Brake Fluid	22°C	100	100
Water/Glycol	87°C	90	80



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### FIRST AID & SAFETY PRECAUTIONS

Please refer to Safety Data Sheet (SDS) before use. Use with adequate ventilation and avoid breathing fumes. Avoid contact with eyes and skin. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet (SDS) for this product have been fully understood by all persons who will work with the material.

### STORAGE

Keep out of reach of children. Store in a sealed container in a cool, dry place. Do not return any unused material to its original container.

Containers must be secured and stored upright during transit.

### DISCLAIMER

Chemtools® has made every effort to ensure the information provided in this Technical Data Sheet is accurate at the time of publication. Chemtools® 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 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.

### FURTHER INFORMATION

Please visit Chemtools® online at [www.chemtools.com.au](http://www.chemtools.com.au) for product photos, marketing materials, Technical Data Sheets, Safety Data Sheets, contact details, and other company/business related information.

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