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Rapidstick™ 8222 Threadlocker

PART NUMBER	AVAILABLE SIZE
8222-10	10ml Bottle
8222-50	50ml Bottle
8222-250	250ml Bottle

PRODUCT DESCRIPTION

Chemtools® Rapidstick™ 8222 Threadlocker is low strength, fast curing, and specifically formulated to give controlled friction and torque/tension ratio during assembly. It is used for the permanent bonding and sealing of threads and the retaining of cylindrical parts, and is ideal for small screws and fasteners 6mm and under - particularly those loosening under vibration.

8222 is highly resistant to heat, water, gases, oils, hydrocarbons, and many chemicals, and is specifically suitable for applications requiring the adjustment of set screws and fasteners where easy disassembly is required. Best performance is achieved in thin bond gaps.

8222 meets Military Specification MIL-S-46163 Type 11, Grade M.

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.

TECHNICAL DATA

LIQUID PROPERTIES:

Composition	Methacrylate Ester
Appearance	Purple
Viscosity @ 25°C, Brookfield RVT, Spindle 3, 20 rpm	1,000 cps
Maximum Diameter of Thread/Gap Filling	6mm (1/4")
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	20 minutes
Functional Cure Time	1 – 3 hours
Full Cure Time	24 hours

MECHANICAL PROPERTIES:

Coefficient of Thermal Expansion, ASTM D696, K^{-1}	80 x 10^{-6}
Coefficient of Thermal Conductivity, ASTM C177, $W.m^{-1}.K^{-1}$	0.1
Specific Heat, kJ/Kg.K	0.3
Compressive Shear Strength, ISO 10123, Steel Pins and Collars	3 to 10 N/mm^2 / 430 to 1,450 psi

Torque, ISO 10964 (M10 Steel Nuts and Bolts)

Breakaway Torque	6 N.m. / 53 lb.in.
Prevail Torque	4 N.m. / 30 lb.in.
Break Loose Torque, Pre-torqued to 5 N.m.	9 to 21 N.m / 80 to 190 lb.in.
Max Prevail Torque, Pre-torqued to 5 N.m.	9 to 21 N.m / 190 lb.in.

CHEMICAL RESISTANCE PROPERTIES:

		% Initial Strength Retained	
Chemical	**Temperature**	**500 hours**	**1,000 hours**
Acetone	22°C	100	80
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	85

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 for product photos, marketing materials, Technical Data Sheets, Safety Data Sheets, contact details, and other company/business related information.