

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™ 8-5811 Anaerobic Thread Sealant

PART NUMBER	AVAILABLE SIZE*
8-5811-50	50ml Tube
8-5811-250	250ml Tube

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

DESCRIPTION

Chemtools® Rapidstick™ 8-5811 Anaerobic Thread Sealant is a Class III methacrylate ester compound offering immediate low pressure resistance for all metal threads on pipes, joints, and fittings with variable pressures and alternating temperatures. It provides excellent lock and seal properties to resist loosening and leakage during testing and after full cure. Suitable for use on all active metals without the need for priming, its excellent thixotropic nature prevents migration.

8-5811 is a soft setting sealant with a potable water safe formulation that protects against corrosion, shock, and vibration. It will not creep, shrink, gall, migrate, or block systems, and is an excellent sealant for gases, water, LPG, hydrocarbons, oils, and other chemicals.

Australian Gas Association Certificate No. AGA 8831 G (Class III - Rated Working Gas Pressure 2,000 kPa)

APPLICATION

Ensure threaded surfaces are clean, dry, and free from oil, grease, dirt, and old sealant residue prior to application. It is recommended to prime inactive metals first with *Chemtools® Rapidstick™ 8-ADP Anaerobic Adhesives Primer*.

Apply sealant directly onto the male threads of the connection using a brush or applicator.

Assemble the threaded components, ensuring they are tightened to the recommended torque specifications.

Wipe away any excess sealant that oozes out during assembly.

TECHNICAL DATA

Jointing Compound Class	Class III
Maximum Working Gas Pressure (per AGA recommendations)	2000 kPa
Setting Type (Hard/Soft)	Soft Setting
Composition	Methacrylate Ester
Appearance	Yellow
Thread Filling	Up to 76mm (3")
Viscosity @ 25°C, Brookfield RVT, Spindle 3, 20 rpm	24,000 to 80,000 Thixotropic (paste)
Specific Gravity	1.05
Flash Point	> 100°C
Solvent Content	None
Manufacturer Shelf Life (unopened)	24 months
Service Temperature Range	-10°C to +148°C
Handling Cure Time	10 – 30 minutes
Functional Cure Time	2 – 4 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	> 5 N/mm ² / > 725 psi
Seals Operating Pressures to:	10,000 psi

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Torque, ISO 10964 (M10 Steel Nuts and Bolts)

Breakaway Torque	11 N.m. / 100 lb.in.
Prevail Torque	6 N.m. / 50 lb.in.
Break Loose Torque, Pre-torqued to 5 N.m.	17 N.m / 150 lb.in.
Max Prevail Torque, Pre-torqued to 5 N.m.	17 N.m / 150 lb.in.

CHEMICAL RESISTANCE PROPERTIES

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1,000 hours
Acetone	22°C	80	65
Ethanol	22°C	100	95
Motor Oil	125°C	100	100
Petrol	22°C	100	100
Brake Fluid	22°C	100	95
Water/Glycol	87°C	90	90

SHELF LIFE

24 months from the date of manufacture in accordance with the following conditions: Store in its original, unopened container in a cool, dry place at continuous temperatures between 7°C and 27°C. Long term exposure outside of these temperatures will reduce the shelf life of this material.

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. 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 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/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 recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Do not return any unused material to its original container. Containers should be secured and stored upright during transit.

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.