CRC Industries, Inc.
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Technical Data Sheet

Screw Lock
Low Strength Threadlocker (Purple)

I. Product Description

CRC Screw Lock is a single component anaerobic threadlocking adhesive, which is thixotropic and develops low strength. CRC Screw Lock cures between close fitting metal parts where there is an absence of air. The product prevents loosening and leakage of threaded fasteners caused by shock and vibration.

II. Applications

Designed for the locking and sealing of threaded fasteners which require easy disassembly with standard hand tools. Use on precision screws and bolts ¼" or less in diameter.

III. Features & Benefits

- Compare to Loctite 222
- Prevents loosening and leakage
- Low strength formula allows easy disassembly with hand standard tools
- Fast cure time

IV. Physical Properties

Base Compound	Dimethcrylate Ester	**Toxicity**	Low
Appearance	Purple Liquid	**Shelf Life @ 40°F**	1 year unopened
Specific Gravity	1.09	**Shear Strength (Steel nuts & bolts)**	600 psi
Viscosity (cP @ 68°F)	1200 cP	**Flash Point (TCC)**	>200°F
Service Temperature	-75°F to 300°F	**Locking Strength**	Low
Full Cure Time	24 hours		
Gap Fill	.007		
Corrosivity	None		

V. Performance of Cured Materials

Bond Strength after 24 hours at 20°C to 25°C on steel nuts and bolts

	Avg. Value	**Range**
Breakaway Torque	58 in. lbs.	25-80 in. lbs.
Prevailing Torque	30 in. lbs.	10-50 in. lbs.

VI. Specifications and Approvals

- MIL-S-46163A Type II, Grade M

VI. Directions

For Assembly:

1. For best results, clean all surfaces (external and internal) with a CRC cleaning solvent and allow to dry.
2. Shake the product well before use.
3. Apply product to both parts and assemble.
4. Product should be applied in enough quantity to fill all engaged threads.
5. Allow assembly to cure for a minimum of 15 minutes before handling.
6. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

For Disassembly:

1. Remove with standard hand tools.
2. In rare instances where hand tools do not work because of excessive engagement length, apply localized heat to nut or bolt to approximately 250° C. Disassemble while hot.

For Cleanup:

1. Cured product can be removed with a combination of soaking in a CRC solvent and mechanical abrasion such as a wire brush.

NOTE: This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.
This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

VII. Package Description

Part Number	Container Size
04502	1 oz Bottle
04500	4 oz Bottle
04501	16 oz Bottle

VIII. Disposal

Disposal requirements vary by state and local jurisdiction. All used and unused product should be disposed of in conformance with local, state and federal regulations.

IX. Special Use Warnings

General
Use only in well ventilated area. Ventilation may be improved by opening a window or door or providing mechanical assistance. Vapors will accumulate readily and may ignite. Avoid continuous breathing of vapor and spray mist. Avoid contact with skin and eyes. If ventilation is not adequate, respiratory protection should be worn. For more information regarding short term and long term exposure, review this product's Material Safety Data Sheet.