



I. Product Description

CRC Penetrating Threadlocker is a single component, low viscosity anaerobic threadlocking adhesive, which develops medium to high strength. CRC Penetrating Threadlocker 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

Suitable for use with preassembled components. It's low viscosity and capillary action allow the adhesive to wick into the threaded assembly. The product can also be used to fill porosity in welds and castings.

III. Features & Benefits

- Compare to Loctite 290
- Formulated to penetrate / wick into preassembled fasteners
- Prevents loosening and leakage
- Fast cure time

IV. Physical Properties

Base Compound	Dimethcrylate Ester	Toxicity	Low
Appearance	Green Liquid	Shelf Life @ 40°F	1 year unopened
Specific Gravity	1.07	Shear Strength (Steel nuts & bolts)	2000 psi
Viscosity (cP @ 68°F)	15 cP	Flash Point (TCC)	>200°F
Service Temperature	-75°F to 300°F	Locking Strength	High
Full Cure Time	24 hours		
Gap Fill	.003		
Corrosivity	None		

V. Performance of Cured Material

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

	Avg. Value	Range
Breakaway Torque	100 in. lbs.	40-150 in. lbs.
Prevailing Torque	250 in. lbs.	150-310 in. lbs.

VI. Specifications and Approvals

- MIL-S-46163A Type III, Grade R

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
04527	1 oz Bottle
04525	4 oz Bottle
04526	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.

DISCLAIMER: This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. All products should be tested for suitability on a particular application prior to actual use. CRC Industries, Inc. makes no representations or warranties of any kind concerning this data.

CRC Industries, Inc.
Technical Service: (800)521-3168

Industrial Products Division
Customer Service: (800)272-4620

Warminster, PA 18974
CRC On-Line: (215)442-6260