

THREADLOCKER RED 271[™]

DESCRIPTION

LOCTITE[®] THREADLOCKER RED 271[™] is designed for permanent locking and sealing of threaded metal fasteners. The product cures anaerobically, when there is an absence of air, between close fitting metal surfaces. It protects threads from rust and corrosion and prevents loosening from shock and vibration. Once cured, it is only removable by heating parts to 450°F (232°C).

Available As:

Item #	Package	Size	
209741	Plastic carded squeeze tube	0.20 fluid ounce (6 mL)	
2872405	Paper carded squeeze tube	0.20 fluid ounce (6 mL)	

FEATURES & BENEFITS

- High strength and locks threads permanently
- Prevents loosening of metal fasteners caused by vibration
- Permanent seal prevents tampering and is only removeable by heating
- Protects and seals threads from rust and corrosion

RECOMMENDED FOR

Use on metal fasteners up to 1" (25mm) in diameter in a wide variety of applications including:

Automotive – Internal engine, auto frame, auto suspension, wheel studs

Maintenance - Heavy machinery, structural fasteners, heavy conveyors, material movers

Home - Structural bolts, handrails, play sets, heavy duty equipment

LIMITATIONS

- Not for use on plastic parts, particularly thermoplastic materials where stress cracking of the plastic could result.
- Not for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.
- A primer is needed if two inactive metals are used i.e., plated parts, black oxide coated.
- Do not use in applications requiring "food safe" locking and sealing of fasteners.
- When used in devices handling gasoline, petroleum oils, and natural gas, pressure should not exceed over 300PSIG; devices holding butane and propane not to exceed 2 inch pipe size.

TECHNICAL DATA

Typical Uncured Physical Properties:					
Color:	Red	Odor:	Mild		
Appearance:	Liquid	VOC Content:	0.82% by weight	CARB	
Base:	Dimethacrylate ester		7.81 g/L	SCAQMD	
Viscosity:	400 – 600 cps	Flash Point:	>199.94°F (>93.3°C)		
Specific Gravity:	1.10				



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Typical Application Pro	perties:				
Application Temperature:	Apply above 50°F (10°C)	Lot Code	1B AA2230		
Set Time:	10 minutes for active metals (steel) Longer for less active metals	Explanation:	1=Last digit of the year of manufacture		
Cure Time:	24* hours		B = Month of Year (A=Jan, B=Feb., etc.)		
Shelf Life:	24 months from date of manufacture (unopened)		Example: 1B = February 2021		
*Time is dependent on tempera	ture, humidity and thickness of adhesive a	oplied			
Typical Cured Performa	nce Properties:				
Color: Red	d	Cured Form:	Non-flammable, hard solid		
Service Temperature: -65	°F (-54°C) to 300°F (149°C)	Moisture Resistant: Yes			
Adhasiya Drepartisa					
Adhesive Properties: After 90 minutes @ 72°F (2	22°C)-				
Breakaway Torque: 3/8 x 16 steel nuts (grade 2) and bolts (grade 5)		75 to 225 lb·in (8.5 to 25.4 N·m)			
Prevail Torque: 3/8 x 16 steel nuts (grade 2) and bolts (grade 5)		150 to 300 lb⋅in (16.9 to 34 N⋅m)			
After 24 hours @ 72°F (22°C): Breakaway Torque (ISO 10964): 3/8 X 16 steel nuts (grade 2) and bolts (grade 5) 3/8 x 16 cadmium nuts and bolts 3/8 x 16 zinc nuts and bolts M10 steel nuts and bolts		150 to 300 lb·in (16.9 to 34 N·m) 40 to 125 lb·in (4.5 to 14.1 N·m) 40 to 125 lb·in (4.5 to 14.1 N·m) 150 to 350 lb·in (17 to 40 N·m)			
Prevail Torque (ISO 10964): 3/8 X 16 steel nuts (grade 2) and bolts (grade 5) 3/8 x 16 cadmium nuts and bolts 3/8 x 16 zinc nuts and bolts M10 steel nuts and bolts		200 to 355 lb·in (22.6 to 40 N·m) 150 to 300 lb·in (16.9 to 34 N·m) 150 to 300 lb·in (16.9 to 34 N·m) 200 to 350 lb·in (23 to 40 N·m)			
Applicable Specifications:					
Tested to the requirements of			y Specification Mil-S-46163A I D5363		

Chemical/Solvent Resistance: Aged under conditions indicated and tested @ 72°F (22°C)

		% of Initial Strength		
Environment	°F/°C	100 hours	500 hours	1000 hours
Motor oil (MIL-L-46152)	257/125	85	85	75
Unleaded gasoline	72/22	100	100	100
Leaded Gasoline	72/22	100	100	100
Brake fluid	72/22	100	100	100
Ethanol	72/22	95	95	95
Acetone	72/22	95	95	95
1,1,1 Trichloroethane	72/22	100	95	95
Water/ glycol 50/50	189/87	100	85	85

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DIRECTIONS

Tools Typically Required:

Wear gloves and wash hands after use. Utility knife and damp cloth.

Safety Precautions:

Keep out of reach of children!

Preparation:

Protect work area. Parts to be sealed must be clean and dry. Shake product thoroughly before use. Unscrew cap and cut tip. *Note:* To prevent the product from clogging in the nozzle, avoid touching the tube tip to the metal surface.

Application:

For Thru Holes:

Apply several drops of the product onto the bolt at the nut engagement area.

For Blind Holes:

Apply several drops of the product down the internal threads to the bottom of the hole.

For Sealing Applications:

Apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.

Assemble parts and tighten as required. Sets in approximately 10 minutes and fully cures in 24 hours.

For Disassembly:

Apply localized heat to nut or bolt to approximately 450°F (232°C). Disassemble while hot.

Clean-up:

Uncured: Wipe with a damp cloth.

Cured: Remove with a combination of soaking in a LOCTITE solvent (such as SF 790 Chisel Paint Stripper or Loctite 7601 Equipment Flushing Solvent) and mechanical abrasion such as a wire brush.

STORAGE & DISPOSAL

NOT DAMAGED BY FREEZING. Close the tube tightly after each use. Store product in the unopened container in a dry location. Optimal storage is between 46°F (8°C) to 70°F (21°C).

LABEL PRECAUTIONS

WARNING: Contains methacrylate ester. May cause allergic skin reaction and eye irritation. Avoid eye and skin contact. Avoid breathing vapors. Use only with adequate ventilation.

FIRST AID: For eye contact, flush with water for 15 minutes; call a physician. For skin contact, wash thoroughly with soap and water. If inhaled, move to fresh air. If swallowed, do not induce vomiting. Obtain medical attention. **KEEP OUT OF REACH OF CHILDREN**

MARNING: Cancer and Reproductive harm – www.P65Warnings.ca.gov

Refer to the Safety Data Sheet (SDS) for further information.

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