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Loctite 13102

Loctite Threadlocker Red 271 Instruction Manual

Model: 13102

1. INTRODUCTION

Loctite Threadlocker Red 271 is a high-strength, permanent adhesive designed to secure threaded fasteners. It prevents loosening due to vibration and protects threads from leaks, rust, and corrosion. This product is suitable for fasteners up to 1 inch (25mm) in diameter and is commonly used in automotive, machinery, and industrial applications.

2. PRODUCT OVERVIEW

The Loctite Threadlocker Red 271 offers several key features:

- **Permanent Lock:** Designed for permanent locking and sealing of threaded fasteners.
- **High Strength:** Provides a strong bond for fasteners up to 1 inch (25mm).
- **Vibration Resistance:** Prevents fasteners from loosening due to shock and vibration.
- **Corrosion Protection:** Protects threads from rust and corrosion.
- **Fast Setting:** Sets in approximately 10 minutes and fully cures within 24 hours.



Figure 2.1: Loctite Threadlocker Red 271 in its blister packaging.

This image displays the Loctite Threadlocker Red 271 product in its retail packaging, highlighting its permanent nature and high strength for large fasteners.

3. APPLICATION INSTRUCTIONS

Follow these steps for proper application of Loctite Threadlocker Red 271:

1. **Prepare Surfaces:** Ensure all metal parts are clean and dry before assembly. Remove any oil, grease, or dirt.
2. **Shake Well:** Shake the product tube thoroughly before use to ensure proper mixing of components.
3. **Apply Product:** Apply a sufficient amount of Loctite Threadlocker Red 271 to the threaded area of the fastener. For through-holes, apply several drops onto the bolt at the nut engagement area. For blind holes, apply several drops down the internal threads to the bottom of the hole.
4. **Assemble Parts:** Assemble the parts promptly after application.
5. **Curing Time:** The product sets in approximately 10 minutes. Allow 24 hours for full cure to achieve maximum

strength.



HOW TO USE

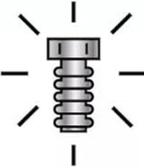
- CLEAN AND DRY METAL PARTS BEFORE ASSEMBLY** 
- SHAKE WELL** 
- APPLY TO THREADED MATERIAL AND ASSEMBLE PARTS** 
- SETS IN 10 MIN
CURES IN 24 HOURS** 

Figure 3.1: Visual guide for applying Loctite Threadlocker Red 271.

This image illustrates the four key steps for using the threadlocker: cleaning parts, shaking the tube, applying to threads, and noting the setting and curing times.



Figure 3.2: Close-up of Loctite Red 271 being applied to a bolt.

This image shows a hand applying the red threadlocker liquid directly onto the threads of a bolt, demonstrating the application process.

4. APPLICATIONS AND USES

Loctite Threadlocker Red 271 is suitable for a wide range of applications requiring a permanent bond for threaded assemblies. Common uses include:

- **Automotive:** Internal engine components, auto frames, auto suspension, wheel studs, valve covers, water pumps, alternators.
- **Maintenance:** Heavy machinery, structural fasteners, heavy conveyors, material movers.
- **Home:** Structural bolts, handrails, play sets, lawn mowers.



USES

-  **AUTOMOTIVE**
INTERNAL ENGINE
AUTO FRAME
AUTO SUSPENSION
WHEEL STUDS
-  **MAINTENANCE**
HEAVY MACHINERY
STRUCTURAL FASTENERS
HEAVY CONVEYORS
MATERIAL MOVERS
-  **HOME**
STRUCTURAL BOLTS
HANDRAILS
PLAY SETS
LAWN MOWERS



Figure 4.1: Examples of applications for Loctite Threadlocker Red 271.

This graphic categorizes the uses of the threadlocker into automotive, maintenance, and home applications, providing specific examples for each.



Figure 4.2: Application of Loctite Red 271 on a water pump assembly.

This image shows the threadlocker being applied to bolts on a water pump assembly, demonstrating its use in automotive maintenance.

5. MAINTENANCE AND REMOVAL

Loctite Threadlocker Red 271 provides a permanent bond. Removal of cured product requires specific methods:

- **Heat Application:** To disassemble parts, localized heat must be applied to the nut or bolt to approximately 500°F (260°C).
- **Disassembly:** While hot, disassemble the parts using standard hand tools.

PERMANENT

FOR THREADED ASSEMBLIES UP TO 1"

10 MIN SET TIME

PREVENTS:

- LOOSENING FROM VIBRATION**
- LEAKS**
- RUSTING**

Only removable with high heat and hand tools. See TDS for more information.

Figure 5.1: Permanent characteristics and removal method for Loctite Red 271.

This image highlights that Loctite Red 271 is permanent, prevents loosening, leaks, and rusting, and is only removable with high heat and hand tools.

6. TROUBLESHOOTING

If the threadlocker does not cure or hold as expected, consider the following:

- **Surface Cleanliness:** Ensure surfaces are completely clean and free of contaminants like oil or grease.
- **Proper Application:** Verify that sufficient product was applied to the threads.
- **Curing Time:** Allow the full 24 hours for complete curing before subjecting the assembly to stress.
- **Material Compatibility:** Loctite Threadlocker Red 271 is designed for metal fasteners. Ensure compatibility with the materials being joined.
- **Removal Difficulty:** If removal is difficult even with heat, ensure the specified temperature of 500°F (260°C) was reached and maintained during disassembly attempts.

7. SPECIFICATIONS

Feature	Detail
Product Name	Loctite Threadlocker Red 271
Model Number	13102
Brand	Loctite
Item Form	Liquid
Material	Cyanoacrylates
Specific Uses	Threadlocker
Fastener Size	Up to 1 inch (25mm)
Set Time	10 minutes
Full Cure Time	24 hours
Temperature Range	-65°F to 300°F (-54°C to 149°C)
Removal Method	Heat to 500°F (260°C) and hand tools
Product Dimensions	0.63 x 0.63 x 3.5 inches; 0.2 ounces
Manufacturer	Henkel

8. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always refer to the Safety Data Sheet (SDS) for complete safety information and handling instructions. Use in a well-ventilated area. Avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water and seek medical advice.

Keep out of reach of children. Store in a cool, dry place.

9. WARRANTY AND SUPPORT

For product support, technical assistance, or warranty information, please contact Loctite customer service or visit the official Loctite website. Specific warranty details may vary by region and product. Always refer to the product packaging or official Loctite resources for the most current information.

You can find more information on the [Loctite Store](#).

