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ISO CERTIFIED

TECHNICAL DATA SHEET

RED HIGH STRENGTH THREADLOCKER
PART NO. 143341

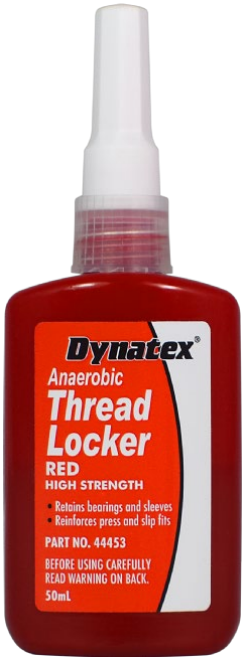
PHYSICAL PROPERTIES

Monomer (Liquid)

Base Compound	Dimethacrylate Ester
Color	Red
Viscosity	500 +/- 200 cps
Flash Point (TCC)	>200^{0}F
Gap Fill	.007"
Specific Gravity (g/cc)	1.1
Flash Point	>200ºF / 93ºC
Shelf Life	1 year unopened
Storage Condition	20ºC / 68ºF
RoHS-Compliant	Yes

Polymer (Cured)

Appearance	Red liquid
Locking Strength	High
Service Temperature Range	-65^{0}F to 300^{0}F
Full Cure Time	24 hours
Specification and Approvals	Mil-S-46163A, Type I Grade K; ASTM D-5363 AN 0221



DESCRIPTION

Dynatex® Red High Strength Threadlocker is a single component, anaerobic liquid which cures when confined in the absence of air between close fitting metal surfaces. *Dynatex® Red High Strength Threadlocker* is a high strength anaerobic threadlocking material that cures between engaged threads to form a unitized assembly that resists virtually all leakage, shock and vibration. Prevents loosening and leaking of threaded fasteners. It is suitable for heavy-duty applications where high levels of shock, vibration and stress are present.

PERFORMANCE OF CURED MATERIALS

Bond strength after 24 hours at 20^{0}C to 25^{0}C on steel nuts and bolts

	Inch-pounds	Newton meters
Breakaway Torque	140.0 to 320.0	15.82 to 36.16
Prevailing Torque	200.0 to 440.0	22.60 to 49.71

FEATURES

- Eliminates vibration issues
- Cures without cracking or shrinking
- Prevents rusting of threads
- Seals against leakage
- No mixing
- No curing outside of joint

TYPICAL APPLICATIONS

- Shock absorber bolts
- Frame bolts
- Cylinder block
- Rocker arm studs
- Ring gear bolts
- Fan hub bolts
- Motor and pump mounts
- Heavy equipment

Packaging
Colors: Red
Size: 50ml Bottle

SETTING TIME (68^{0}F, 65% R.H.)

Substrate	Set time/Full cure
Steel	15 min/24 hrs
Brass	15 min/24 hrs
Zinc-Plated	20 min/24 hrs
Stainless Steel	20 min/24 hrs

SOLVENT RESISTANCE

Solvent	Resistance
Alcohol (Ethanol, Methanol)	+ + +
Ester (*aromatic*) (Ethylacetate)	- - -
Ketone (*aromatic*) (Acetone, Benzophenone)	- - -
Aliphatic Hydrocarbon (*alkanes*) (Petrol, Heptanes, Hexane)	+ + -
Aromatic Hydrocarbons (Benzyl, (Toluol, Xylol)	+ + -
Halogenated Hydrocarbons (Methylenchloride, Chloroform, Chlorobenzol)	- - -
Weak aqueous (Nitrite, muriatic acid, sulphuric acid, phosphoric acid)	+ + + (- - - if concentrated)
Weak aqueous base (sodium hydroxide solution, caustic potash)	+ + + (- - - if concentrated)

GENERAL INSTRUCTIONS

Surfaces to be bonded should be clean and dry and free of grease.

Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps, which will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

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.

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), ***Dynatex®*** *Red High Strength Threadlocker* has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. DO NOT stack cartons on their side. ***NEVER*** stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building.

USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Non-warranty: Because the storage, handling and application of the material is beyond Dynatex control, we can accept no liability for the results obtained. Dynatex sole limited warranty is the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. Dynatex will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted.

Suggestions of uses should not be taken as inducements to infringe any patents.

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