

GREEN HIGH STRENGTH THREADLOCKER LOW VISCOSITY – WICKING STYLE PART NO. 49463

PHYSICAL PROPERTIES

Monomer (Liquid)

Base Compound	Dimethacrylate Ester
Appearance	Green liquid
Viscosity (Brookfield Spindle 3 @ 20rpm, RVT, 25°C)	30 +/- 20 cps
Flash Point	>200°F (93°C)
Gap Fill003"
Corrosivity	None
Toxicity	Low
Specific Gravity	1.1
Shelf Life	12 months unopened
RoHS-Compliant	Yes
Meets	Mil-S-46163A, Type III Grade R
.....	ASTM D-5363 AN 0261

Polymer (Cured)

Appearance	Green solid
Locking Strength	High
Service Temp Range	-65 to 300°F (-54 to 149°C)
Full Cure Time	24 hours
Pin/Collar Strength	2000 psi
.....	14 N/mm ²



DESCRIPTION

Dynatex® Green High Strength Threadlocker is a low viscosity anaerobic threadlocking adhesive that develops medium to high strength. Because of its low viscosity and capillary action, the product wicks between engaged threads and eliminates the need to disassemble, apply product, and then reassemble. Cures when confined in the absence of air between close fitting metal surfaces. Prevents loosening and leaking from shock and vibration, and protects threads from rust and corrosion. **Dynatex® Green High Strength Threadlocker** can also be used to fill porosity in welds, casting and powder metal parts. Localized heating and hand tools are needed for disassembly.

FEATURES

- No mixing
- Eliminates disassembly prior to application
- Prevents loosening due to vibration issues
- Seals porosity
- Cures without cracking or shrinking
- Seals against leakage
- Prevents rusting of threads
- No curing outside of joint
- Tamper-free

TYPICAL APPLICATIONS

Use on:

- Pre-assembled threaded assemblies
- Adjustment screws
- Brazed joints in cooling systems
- Carburetors
- Electrical connectors

PERFORMANCE OF CURED MATERIALS

	inch-pounds	Newton meters
Breakaway Torque	50 to no limit	5.65 to no limit
Prevailing Torque	150 to 350	16.95 to 39.54

SETTING TIME (68°F/20°C, 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

CURING PERFORMANCE

The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed. Activators can be applied to improve set speed but may also impair overall adhesive performance.

SOLVENT RESISTANCE

Solvent	Example	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 acid	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® Green 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.

Dynatex® A division of Soudal Accumetric

Dynatex
350 Ring Road
Elizabethtown
Kentucky 42701 USA
(800) 999-2937
TEL (270) 769-5557
FAX (270) 769-6418
Outside U.S.
TEL +1(270) 769-5557
FAX +1(270) 769-6418

Accumetric Asia Pacific, LTD
18 Kitpanit Bldg. 5th Floor
#502 Patpong Road
Suriyawong, Bangrak
Bangkok, 10500 Thailand
TEL (662) 634-3060
FAX (662) 634-3066

Email: sales@dynatexinc.com
Website: www.dynatexinc.com