

GREEN HIGH STRENGTH BOLTLOCKER LOW VISCOSITY – *WICKING STYLE* PART NO. 49460

PHYSICAL PROPERTIES

Monomer (Liquid)

Base Compound	Dimethacrylate Ester
Color	Green
Viscosity (cP @ 68°F)	15 cP
Flash Point (TCC)	>200°F
Gap Fill003"
Corrosivity	None
Toxicity	Low
Specific Gravity (g/cc)	1.07
Shelf Life @ 40°F	1 year unopened
Military Specifications	Mil-S-46163A
	Type III Grade R
Curing Properties	Depends on environmental conditions and the substrates used

Polymer (Cured)

Locking Strength	High
Service Temperature Range	-65°F to 300°F
Appearance	Green liquid
Shear Strength (steel nuts and bolts)	2000 psi
Full Cure Time	24 hours

DESCRIPTION

Dynatex® Green High Strength Boltlocker 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. 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. The high prevailing torque provides vibration resistance to adjustment screws. Ideal for all threaded engagements less than or equal to ½ inch in diameter. **Dynatex® Green High Strength Boltlocker** can also fill porosity in welds, castings and powder metal parts. Excellent chemical resistance with a temperature resistance range from -65°F to 350°F (-54°C to 177°C).

FEATURES

- No mixing
- No disassembly
- Eliminates vibration issues
- Seals porosity
- Cures without cracking or shrinking
- Can be adjusted or disassembled
- Seals against leakage
- Prevents rusting of threads
- No curing outside of joint

TYPICAL APPLICATIONS

Prevents loosening and leakage of pre-assembled threaded fasteners and as a porosity sealant. Particularly suitable for applications such as:

- Pre-assembled threaded assemblies
- Adjustment screws
- Seal brazed joints in cooling systems
- Seal porous welds
- Seal porosity on brake unit housings

PERFORMANCE OF CURED MATERIALS

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

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

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.

SETTING TIME (68°F, 65% R.H.)

Substrate	Set time/Full cure
Steel	10 min/24 hrs
Brass	20 min/24 hrs
Zn Dichromate	55 min/24 hrs
Stainless Steel	60 min/24 hrs

CHEMICAL RESISTANCE

Sheer strength on steel after 500 hours.

Solvent	% Strength Retained
Motor Oil	90
Unleaded Gasoline	85
Trichloroethane	90
Brake Fluid	90
Ethanol	85
Acetone	95
Water/Glycol Mix	95

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 Boltlocker** 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.

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