



# TECHNICAL DATA SHEET



## PERMANENT BEARINGLOCKER PART NO. 10609 (10mL) 50609 (50mL)

### DESCRIPTION

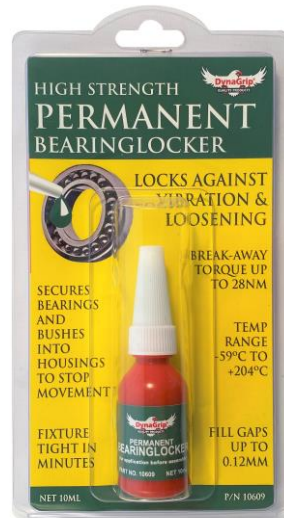
DynaGrip® Permanent Bearinglocker is designed to lock as received, oily fasteners and bearings with high strength. Allows disassembly with normal tools yet provides maximum vibration resistance.

### FEATURES

- No mixing
- No disassembly
- Eliminates vibration issues
- Ideal for bearings, keys and splines
- Cures without cracking or shrinking
- Can be adjusted or disassembled
- Seals against leakage
- No curing outside of joint

### TYPICAL APPLICATIONS

Replaces lock washers and plastic inserts and holds bearings in place. Locks machine tool access bolts, studs, and hydraulic system bolts. Used on gear box bolts/driveshaft, bearing cover cap screws, counter sunk screws, conveyor roller bolts and construction equipment.



### PHYSICAL PROPERTIES

#### Monomer (Liquid)

Base Compound.....	Methacrylate Ester
Colour.....	Green
Viscosity (cP @ 20°C/68°F).....	125 cP
Flash Point (TCC).....	>100°C(200°F)
Gap Fill.....	0.15mm(.0006")
Corrosivity.....	None
Toxicity.....	Low
Specific Gravity (g/cc).....	1.1
Shelf Life @ 4°C(40°F).....	1 year unopened
Military Specifications.....	Mil-R-46082B Type I
Curing Properties.....	Depends on environmental conditions and the substrates used

#### Polymer (Cured)

Locking Strength.....	High
Service Temp. Range.....	-59°C to 204°C (-74°F to 400°F)
Appearance.....	Green liquid
Full Cure Time.....	24 hours

## CURING PROPERTIES

Handling Cure Time: 10 minutes  
Functional Cure Time: 1-3 hours  
Full Cure Time: 24 hours Compressive  
Shear Strength (ISO 10123):

AFTER 24 HOURS at 22°C

Steel Pins & Collars 17-19 N/mm<sup>2</sup> 3125psi

AFTER 30MINUTES at 22°C

Steel Pins & Collars 13-15 N/mm<sup>2</sup> 1960psi

## PHYSICAL PRPERTIES

CHEMICAL	TEMP	%INITIAL STRENGTH RETAINED	
		500 hours	1000hours
Acetone	22°C	100	90
Ethanol	22°C	100	100
Motor Oil	125°C	100	100
Petrol	22°C	100	100
Brake Fluid	22°C	100	100
Water/Glycol	22°C	90	80

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 32°C (90°C), **DynaGrip®** Permanent Bearinglocker 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 metre (4 feet) of roofline of the warehouse or storage building.

## 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.



## 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.

## GENERAL INFORMATION

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 require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product when to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

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

**DynaGrip®** is a registered trademark of

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