

TECHNICAL DATA SHEET

PURPLE HYDRAULIC/PNEUMATIC SEALANT PART NO. 47545

PHYSICAL PROPERTIES

Monomer (Uncured)

Base Compound..... Methacrylate Ester
 Appearance Purple liquid
 Viscosity 14,500 +/- 4,700 cps
 Flash Point (TCC) 300°F (149°C)
 Gap Fill007"
 Specific Gravity 1.1
 Shelf Life @ 40°F 1 year unopened
 RoHS-Compliant Yes

Polymer (Cured)

Locking Strength High
 Service Temperature Range -65°F to 300°F
 Appearance Purple solid
 Full Cure Time 24 hours

**NO
PHOTO
AVAILABLE**

DESCRIPTION

Dynatex® Purple Hydraulic/Pneumatic Sealant is a single-component anaerobic threadlocking adhesive designed for the locking and sealing of metal pipes and fittings. Seal hydraulic and pneumatic fittings up to 2" in diameter to resist high pressures and vibrational loosening. This product is specially formulated to offer high-lubricity for easy assembly and removal. Recommended for fine threaded fittings as used in hydraulic and pneumatic installations and small fittings. It contains no fillers or particles that could contaminate system fluids, foul valves or clog fine filters and screens. Excellent solvent resistance.

FEATURES

- Eliminates vibration issues
- Prevents rusting of threads
- Offers lubricity for easy assembly
- Can be adjusted or disassembled
- Seals against leakage

TYPICAL APPLICATIONS

- Small bolts in distributor
- Dash board assembly bolts
- Relay lock screws
- Idle control screws
- Small bolts in ignition systems
- Throttle body assembly bolts
- Set screw for rear view mirror

SOLVENT RESISTANCE

Sheer strength on steel after 500 hours.

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)

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	30 min/24 hrs.
Brass	45 min/24 hrs.
Zinc-plated	60 min/24 hrs.
Stainless Steel	60 min/24 hrs.

PERFORMANCE OF CURED MATERIALS

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

	Inch-pounds	Newton Meters
Breakaway Torque	20.0 to 60.0	2.26 to 6.78
Prevailing Torque	15.0 to 55.0	1.69 to 6.21

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® Purple Low 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.

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.

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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