

PIPE SEALANT WITH PTFE PART NO. 49486

TYPICAL PROPERTIES OF UNCURED SEALANT

Chemical Type.....	Methacrylate Esters
Appearance.....	White opaque paste
Viscosity.....	400,000 cps (mPas)
Specific Gravity.....	1.15
Flash Point.....	>95°C
Solids.....	100%
Shelf Life @ 21°C.....	12 months

DESCRIPTION

Dynatex® Pipe Sealant w/PTFE provides immediate low pressure sealing performance on tapered pipe threads. The product is designed to cure when in contact with metals, and without air by anaerobic reaction up to the burst rating of the pipe itself. The product cures to a solid plastic, completely sealing against hydraulic fluids, air, most gasses, and most chemicals. It is an excellent replacement for pipe dopes and pipe tapes.

FEATURES:

***Certified to ANSI/NSF 61**

Section 6 – Drinking Water System

Components

- Seals instantly to moderate pressures
- Fully cures at room temperature to burst pressure of most piping systems
- Will not crack or shrink because of solvent evaporation
- Superior resistance to a wide range of chemicals
- Controlled strength for easy disassembly
- High temperature resistance
- Locks pipe and fittings against vibration loosening, tampering, and variable temperature effects

TYPICAL APPLICATIONS:

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|-------------------|-----------------------|
| • Automotive | • Plumbing |
| • Appliance | • Utilities |
| • Construction | • Petroleum refining |
| • Fire Protection | • Chemical processing |



GENERAL INSTRUCTIONS

Apply sealant to the leading threads of the male fittings except for the first thread, which should be left free of sealant. Force sealant into the threads to thoroughly fill the voids. Best results will be obtained on fittings that are free of grease and oil. Assemble and wrench-tighten fittings until proper alignment is obtained. Properly tightened fittings will seal instantly to moderate pressures. For maximum pressure and solvent resistance allow sealant to fully cure (24 hour or more depending on temperature).

HEAT RESISTANCE

Dynatex® Pipe Sealant w/PTFE has an operating temperature range between -67°F (-55°C) to 392°F (200°C).

TYPICAL CURED PERFORMANCE (Straight Threads):

The performance and locking strength on 3/8 inch (9.5mm) Zinc plated nuts and bolts is:

Fixture time:	<45 minutes
Breakaway Torque:	45 in-lb (5.0 Nm)
Prevailing Torque:	25 in-lb (2.8 Nm)

TYPICAL CURED PERFORMANCE (Tapered Threads):

Immediate sealing: Instant sealing is a function of the on-torque assembly, type of fitting, grade of fitting, part and ambient temperature among other items. The typical immediate or instant low pressure sealing capability of *Dynatex® Pipe Sealant w/PTFE* is 1000psi (6.9Mpa) when hand assembled, and 3000psi (20.7Mpa) when a 10in-lb (1.1 Nm) on-torque is applied.

Full cure sealing: Maximum sealing capabilities occur after full cure. Typically, this is up to the burst rating of the pipe or fitting itself, which can be in excess of 40,000psi (275Mpa). The time it takes to achieve full cure depends on substrate and the temperature. Full cure may take in excess of 24 hours at low ambient temperature and with inactive metals. Some typical examples of substrate activity are:

Super Active Very Fast Cure	Active Fast Cure	Inactive Slow Cure	Passive Primer necessary
Brass, Copper, Magnesium	Iron, Steel, Nickel, Aluminum	Stainless Steel, Titanium, Zinc, Anodized Aluminum	Ceramics, Glass, Plastics, Painted finishes

CHEMICAL/SOLVENT RESISTANCE

Solvent	Temp	% Of initial Strength after 30 days immersion
Gasoline	190°F (88°C)	100
Motor Oil	190°F (88°C)	100
Brake Fluid	190°F (88°C)	98
Distilled Water	190°F (88°C)	100
Isopropyl Alcohol	190°F (88°C)	100
Perchloroethane	190°F (88°C)	100
Diesel Fuel	190°F (88°C)	100
Transmission Fluid	190°F (88°C)	100

COMPATIBILITY

Uncured *Dynatex® Pipe Sealant w/PTFE* will soften and can damage thermoplastics including ABS, polycarbonate, and vinyl, Methacrylates etc. They will also soften varnish and lacquer finished. It is compatible with all metals, glass, ceramics and thermoset plastics such as phenolic and polyester.

Dynatex® Pipe Sealant w/PTFE is not recommended for pure oxygen or oxygen enriched systems and should not be used as a sealant for chlorine gas, liquid, or other strong oxidizing systems.

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), *Dynatex® Pipe Sealant w/PTFE* 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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