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Titan 7567 Instant Pipe Sealant

Technical Data Sheet

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Titan 7567 Instant Pipe Sealant

Description:

Titan 7567 is a pipe sealant containing Teflon* that 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:

- Automotive
- Appliance
- Construction
- Fire Protection
- Plumbing
- Utilities
- Petroleum refining
- Chemical Processing

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Application and Use:

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).

Typical Properties of the uncured Sealant:

Chemical Type:	Methacrylate Esters
Solids:	100%
Color:	White opaque paste
Viscosity:	400,000 cps (mPas)
Specific Gravity:	1.15
Flash Point:	> 95C
Shelf Life at 21C	12 Months

Typical Cured Performance (Tapered Threads):

1-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 Titan 7567 is 1000psi (6.9MPa) when hand assembled, and 3000psi (20.7MPa) when a 10in-lb (1.1 Nm) on-torque is applied.

2-Full cure sealing: Maximum sealing capabilities occur after full cure. Typically, this 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

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3-Chemical/Solvent Resistance:

Solvent	Temperature	% of initial Strength after 30 days immersion
Gasoline	88C	100
Motor Oil	88C	100
Brake Fluid	88C	98
Distilled Water	88C	100
Isopropyl Alcohol	88C	100
Perchloroethane	88C	100
Diesel Fuel	88C	100
Transmission Fluid	88C	100

4-Heat Resistance: Titan 7567 has an operating temperature range between minus 55C to 200C

Typical Cured Performance (Straight Threads):

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

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

Compatibility:

Uncured Titan 7567 will soften and can damage thermoplastics including ABS, polycarbonate, vinyl, methacrylates etc. They will also soften varnish and lacquer finishes. It is compatible with all metals, glass, ceramics and thermoset plastics such as phenolic and polyester.

Titan 7567 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.

Handling and Storage:

Titan 7567 should be stored in a cool place away from excessive heat, sunlight and low temperatures. Skin and eye contact should be avoided. Consult the MSDS for safety and protection information.

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