Permabond®
Engineering Adhesives

FIRE PROTECTION SEALANTS



Permabond Pipe Sealants use anaerobic technology to prevent leaks in sprinkler systems.

Used in fabrication and installation, Permabond Pipe Sealants replace pipe dope and sealing tapes with a complete and reliable seal. They do not remain a paste, like pipe dope, but cure to a solid plastic seal. Cure is initiated by the presence of metal and the absence of air.

FEATURES & BENEFITS:

- Easy to apply - helps lubricate threads for easy assembly
- Helps prevent cross threading
- Fills gaps caused by damaged threads
- 100% seal, even when pipe is not seated correctly
- Solvent-free and developed to reduce workplace hazard
- Will not shred or dry out or deteriorate over time
- Suitable for use in dry-riser or wet-standpipe systems strength
- Prevents corrosion
- Locks joints to prevent vibration loosening
- Allows directional freedom - sprinkler can be accurately aligned
- Eliminates 'call back' repair costs materials
- Seals cut and mis-threaded fittings
- Replaces pipe dope and tapes
- Open container will not dry out



Products available with:

CLASSIFIED UL

Mil Spec/ ASTM

BAM Federal Institute for Materials Research and Testing

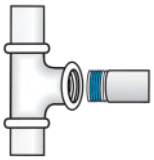
FBC* SYSTEM COMPATIBLE

For use on metal pipe only. Works on all active metals.

* FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology." "The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan®, and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates

Instructions for use - Pipe Sealants





For use on <u>metal pipe only</u> DO NOT USE ON PLASTIC

- For parallel threads, apply Permabond pipe sealant onto the leading 3 - 4 threads half way around the male pipe for pipe up to 1 ½ inches in diameter. For pipe diameter greater than 1 ½ inches apply completely around the pipe.

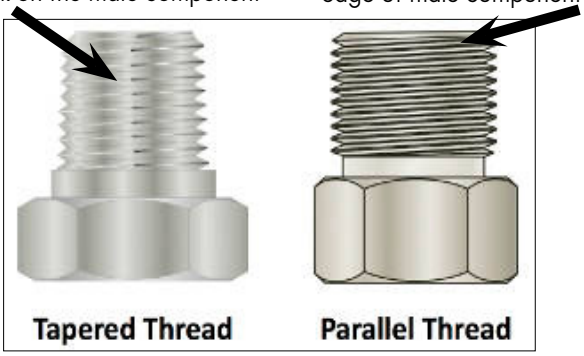
- For tapered threads apply sealant to the circumference of the male component where most contact is made.

- Fasten fittings together. Permabond pipe sealants will seal even when the direction the pipe must face does not allow the complete seating of the threads.

- Visually inspect for a bead of pipe sealant around the entire pipe. If the sealant isn't visible around the circumference, repeat the steps above using more sealant.

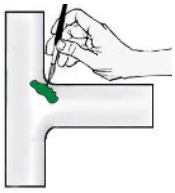
Tapered: apply several threads back on the male component

Parallel: apply to leading edge of male component



Instructions for use - Weld Sealants





- Expose the weld. Remove dirt, rust, scale, and/or paint from the weld area to expose the metal surface.
- Bleed the system of all water and pressure to allow the HL126 or A126 to wick into the porosities.
- Heat the area to 120°F (50°C) or higher. Using heat will expand and activate the metal as well as evaporate any water. **HEAT SHOULD NOT BE USED WITH A CHEMICAL SYSTEM.** Consult the Material Safety Data Sheet information on the flash point, flammability, and heat stability of the chemicals involved.
- Apply HL126 or A126 to the warm welds, with a brush, swab, or clean rag. Wet the area thoroughly with the product so that it can wick into all the open areas within the metal and form a new seal.
- If the porosity is large, or there are several pinholes in the same area, several applications may be necessary to maximize the amount of HL126 that wicks into the voids to assure a permanent seal.
- Within five to ten minutes the product should cure with the capability of handling a low pressure. Within an hour it should be able to handle 200 psi to 500 psi of pressure. Recharging of a sprinkler system can be done after that period.
- After an hour wipe away any surface residue.

The chart on the following page shows a small selection of our most popular grades suitable for use in a range of sprinkler pipework applications. If you don't see exactly what you require, please contact our technical advisors with information about your application and your particular requirements and we will make a recommendation. The Permabond team provides support through the design phase, sample trials, and production line integration. Whether you require technical support, custom formulations, or small batch production, please contact us.

Fire Protection Sealants

Grade	Features	Color	Viscosity cPs (mPa.s)	Max Thread Size	Handling Time on Steel	Torque Strength Num (in.lb)	Approvals	Availability
A131	General purpose low strength pipe thread sealant	White	2rpm: 40,000 20rpm: 6000	M56 (2″)	45 min.	Breakaway: 10 (90) Prevail: 7 (60)	WRAS Certified	Europe, Middle East, Australia
A1044	General purpose medium/high strength pipe thread sealant	White	2rpm: 70,000 20rpm: 9000	M56 (2″)	15 min.	Breakaway: 20 (180) Prevail: 10 (90)	WRAS Certified	Europe, Middle East, Australia
A1058	High viscosity paste for larger diameter pipes. Slow setting speed	White	300,000 Paste	M56 (2″)	90 min.	Breakaway: 8 (70) Prevail: 6 (50)	WRAS Certified	Europe, Middle East, Australia
MH052	Pipe thread sealant for use on passive metals or in cold assembly temperatures	Yellow	2rpm: 65,000 20rpm: 25,000	M56 (2″)	15 min.	Breakaway: 20 (180) Prevail: 11 (100)	WRAS & DVGW Certified BAM Approved	Worldwide
LH050	General purpose pipe sealant	White	250,000	M56 (2″)	120 min.	Breakaway: 4 (35) Prevail: 3 (25)	UL® Classified for sprinkler systems LH050 PURE is NSF/ ANSI 61 Certified	Americas & Asia
LH056	For use on metal pipe work in systems that may also contain CPVC.	White	2rpm: 400,000 20rpm 75,000	M56 (2″)	120 min.	Breakaway: 4 (35) Prevail: 3 (25)	FBC™ System Compatible*	Americas & Asia
LH057	Low-strength sprinkler head sealant. Easy to disassemble.	White	150,000	–	<30 min on Brass	Breakaway: >3 (>26) Prevail: >1 (>9)	–	Americas & Asia
LH150	General purpose / Ideal for stainless steel	White	260,000	–	120 min.	Breakaway: 6 (50) Prevail: 3 (25)	–	Americas & Asia
A126	Weld-porosity sealant – wicks into pin prick weld holes to seal	Green	10-30	M10 (½″)	15 min.	Breakaway: 14 (125) Prevail: 34 (300)	–	Europe, Middle East, Australia
HL126	Weld-porosity sealant – wicks into pin prick weld holes to seal	Green	10-30	M10 (½″)	15 min.	Breakaway: 14 (125) Prevail: 34 (300)	MIL-S-22473E Grade AA MIL-S-46163A Type III Grade R for existing designs ASTM D 5363-97 AN 0261 Group 02 Class 6 Grade 1 and AN 0111 Group 01 Class 1 Grade 1	Americas & Asia
A905	Surface activator for passive / inactive surfaces. Speeds up adhesive cure	Green	0.7	–	–	–	MoD(UK) AFS1748 NSN 8040-99-495-5093	Europe, Middle East, Australia
ASC10	Surface activator for passive / inactive surfaces. Speeds up adhesive cure	Blue Green	0.5	–	–	–	MIl-S-46163A Grade F MIL-S-22473E Grade N&T for existing designs ASTM D5363 Grade N & T	Americas & Asia

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The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions. Always refer to current product technical datasheet for most recent and accurate technical information.