

Permabond®

Fire Protection Sealants

ISO 9001 Certified

"Our Science ... Your Success"

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.

Permabond® Adhesive 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 / deteriorate over time
- Suitable for use in dry-riser or wet-standpipe systems
- Prevents corrosion
- Locks joints to prevent vibration loosening
- Allows directional freedom - sprinkler can be accurately aligned
- Eliminates 'call back' repair costs
- Seals cut and mis-threaded fittings
- Replaces pipe dope and tapes
- Open container will not dry out

Products available with:



Mil Spec/
ASTM



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

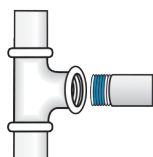


* FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology.™ "The FBC System Compatible Logo, FBC™, FlowGuard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



Permabond®
Engineering Adhesives

Instructions for use - Pipe Sealants



For use on **metal pipe only**
DO NOT USE ON PLASTIC

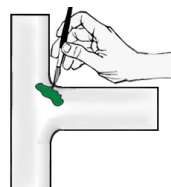
- For parallel threads, apply Permabond pipe sealant onto the leading 3 - 4 threads half way around the male pipe for pipe up to 1 ½ inches in diameter. For pipe diameter greater than 1 ½ inches apply completely around the pipe.
- For tapered threads apply sealant to the circumference of the male component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

| Grade | Features | Colour | Viscosity cPs (mPa.s) | Max Thread Size | Handling Time on Steel | Torque Strength N•m (in.lb) | Approvals | Availability |
|-------|--|------------|-------------------------------|-----------------------|------------------------------|--|---|-----------------------------------|
| A131 | General purpose low strength pipe thread sealant | White | 2rpm: 40,000 20rpm: 6,000 | 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: 9,000 | 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 | | 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 | | 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 |

For full, up-to-date technical information and usage instructions, please refer to the TDS (Technical Data Sheet).

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Distributor Stamp

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.