

PERMABOND[®] LH054

Anaerobic Pipe Sealant



Ref #: 011008PBLH054

TYPICAL APPLICATIONS

Typical Industries Served

Automotive
Appliances
Construction
Fire Protection
Plumbing
Utilities

General Pipe Maintenance

Replaces Dopes and Tapes

General Assembly

Locks and Seals Pipe

FEATURES & BENEFITS

- ◆ Lower Cost Per Application
- ◆ Full Cure Seal to the Burst Rating of Pipe
- ◆ Easy to Use & Apply
- ◆ Directional Freedom
- ◆ Low Shrinkage During Cure
- ◆ Uncured Material Fully Dissolves in Water
- ◆ Nonflammable
- ◆ Environmentally Friendly
- ◆ Allows for Adjustment Up to 10 Hours Post Assembly
- ◆ Superior Resistance to a Wide Range of Chemicals
- ◆ Will Not Tear, Shred, or Gall Fittings
- ◆ High Temperature Resistance
- ◆ Full Cure at Room Temperature
- ◆ Easier Disassembly

GENERAL DESCRIPTION

PERMABOND LH054 is an anaerobic curing, calibrated strength pipe sealant that allows for easier disassembly, especially of larger diameter pipe. The product is instant sealing with full cure occurring in 12-16 hours. The permanent seal is inert to hydrocarbons (gasoline, diesel fuel), most acids, solvents, and steam.

PERMABOND LH054 seals iron, copper or brass pipe and is designed to obtain more complete cure on less active surfaces such as stainless steel and aluminum.

The product is available in a brush-top dispenser. It is applied onto the first few threads, assembled and tightened with a wrench. Instant sealability of 500 psi is obtained, but final adjustment can be made up to several hours after assembly.

Non-Warranty: The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full-scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. THE PRODUCTS DISCLOSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.

No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the non-existence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the Chemical Manufacturers Association's Responsible Care[®] program.

PERMABOND

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PHYSICAL PROPERTIES

Cure	Anaerobic
Color	white
Solids,%	100
Viscosity, Brookfield 25°C, cP 2 rpm	260,000
Consistency	Paste
Specific Gravity	1.2
Shelf Life stored at or below 27°C (80°F), months*	12
Cure Time, hours*	6-16
Flash Point; °C (°F)	>93.3 (200)
Gap Filling, in	Up to 0.020
Odor	Low
*Depends on pipe type and size	

*Package sizes greater than one liter, six months.

PERFORMANCE PROPERTIES OF THE CURED ADHESIVE

Cured at 25°C for 24 hours	
Torque, ISO 10964	
Breakaway, lb-in (N·m)	
M10 steel nuts and bolts	25 (3)
Prevail, lb-in (N·m)	
M10 steel nuts and bolts	20 (2)
Compressive shear strength,ISO 10123 (Steel pin and collars)	1000 psi (7) N/mm ²

INSTANT SEAL

>2 hours at 500 psi (2 inch pipe)

APPLICATION & DISPENSING

1. For best results, clean all surfaces with a cleaning solvent and allow to dry.
2. If the substrates being used are inactive metals or the cure speed is too slow, then spray the parts with ASC10 and allow to dry.
3. Apply the sealant around leading threads of the male fitting. Force the material into all the voids. Adjust amount of sealant according to the size of the fitting.
4. Assemble and tighten the fittings until proper alignment is obtained. Visually check for a small bead of sealant around the entire circumference of the pipe.
5. A seal to moderate pressure is obtained immediately on properly tightened fittings. Allow the sealant to cure for at least 24 hours to obtain maximum pressure and chemical resistance

STORAGE & HANDLING

PERMABOND LH054 pipe sealant should be stored in the original unopened container in a cool place away from sparks, flame, excessive heat and sunlight. Handling should be done using plastic gloves and proper eye protection. Skin contact should be avoided. If skin contact occurs, the affected area should be washed thoroughly with soap and water. Eye contact should be treated by thorough washing with water followed by medical attention. Adequate ventilation is necessary to prevent inhalation of vapors. Proper Personal Protective Equipment is always recommended when using chemicals. **For more information, consult the Material Safety Data Sheet.**

PERMABOND LH054 has a shelf life of one year when stored at 27°C (80°F). Do not freeze. Product removed from original container might be contaminated during use. Do not return this material to the original container.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.