PIPESEAL — 3000PSI

Cures pipe leaks in minutes • Generic type: Heat-cured epoxy paste

Effective Date: September 2026

1. PRODUCT DESCRIPTION

PIPESEAL is a multi-component, high-strength epoxy paste formulated to patch, seal and permanently repair cracks, holes and leaks in all types of metal pipe, including copper, steel, lead, cast iron and aluminum. It is 100% solids, contains no VOCs and is safe to apply.

PIPESEAL is heat activated. The mixed paste is troweled onto and around the leaking area and then cured with a non-flammable heat gun or hair dryer, reaching full cure in minutes rather than hours. This gives the applicator a workable pot life at the bench while still returning the line to service the same visit.

Its adhesive strength makes PIPESEAL well suited to refrigerant lines. It seals holes up to 1/2 in. in diameter in copper pipe and will bond copper to copper, without wrapping, clamping or plugging.

Models

Model #	Description
3000PSI	PIPESEAL heat-cured epoxy paste kit — resin / hardener

** 3000PSI is a product designation, not a pressure rating. See Section 3 for published pressure resistance.*
** Sizes and amounts available on request.*

2. FEATURES & BENEFITS

- Works on all metal pipe — copper, steel, lead, cast iron and aluminum
- Heat activated — hardens fully in minutes once heat is applied
- Withstands pressures greater than 1,200 psi
- No wrapping, clamping or plugging required
- Permanently seals holes up to 1/2 in. in diameter
- Bonds copper to copper
- Suited to refrigerant lines
- Extreme chemical resistance
- 100% solids — no solvents, no VOCs

3. BUILT FOR PRESSURE

> 1,200 psi	5 – 15 min	Up to 1/2 in.	No wrapping
Pressure resistance	Rapid repair *	Hole repair in copper	No plugging required

** PIPESEAL is heat activated. Cure occurs within minutes once heat is applied with a non-flammable heat gun. See Section 10.*
** Published pressure resistance is a conservative working figure and is not the maximum pressure tested.*

Compatible metals

Copper	Steel	Lead	Cast iron
Aluminum			

4. RECOMMENDED USES

- Refrigerant lines and copper tubing
- Pinhole leaks, cracks and holes
- Copper-to-copper bonding
- Steel, cast-iron and aluminum pipe
- Residential plumbing
- Commercial and industrial piping
- Emergency field repairs

5. SELECTION & SPECIFICATION DATA

Generic type	Heat-cured epoxy paste
Color	Light gray
Finish	Matte
Primer	Self-priming
Solids content by volume	100%
VOC	0 g/L
Theoretical coverage	12.8 sq ft at 125 mils · 2 sq ft at 800 mils
Recommended thickness	10 mils or greater in one coat
Mixing ratio	3:1 (A to B) by volume
Specific gravity	Resin: 1.72 · Hardener: 1.03
Flash point	Greater than 250 °F (121 °C)
Adhesion	1,900 psi minimum (pull-off adhesion test, ASTM D4541)

6. SUBSTRATES & SURFACE PREPARATION

The cleaner and better-prepared the surface, the better the adhesion to the substrate.

Substrate	Preparation
General	Surfaces must be clean and dry. Remove all dirt, dust, oil and other contaminants.
Steel — immersion service	SSPC-SP10 near-white metal blast with an angular profile of 2.5 – 3.5 mils.
Steel — non-immersion service	SSPC-SP6 commercial blast with an angular profile of 1.5 – 3.0 mils. In mild environments, SSPC-SP2 or SSPC-SP3 are suitable cleaning methods.
Copper and soft metals	Clean and dry. Abrade the repair area with emery cloth or abrasive pad to create a mechanical profile, then degrease.

** For previously coated surfaces, unusual substrates or chemical exposure, contact the Dynesic Technical Service Department.*

7. CHEMICAL RESISTANCE

Ammonium hydroxide	Aromatic and aliphatic solvents	Black liquor	Butyl acetate
Butyl carbitol	Chlorides	Chlorinated solvents (except methylene chloride)	Chromic acid up to 30%
Hydrochloric acid, concentrated (38%)	Hydrofluoric acid up to 8%	Hydrogen sulfide	Lithium chloride
MEA (monoethanolamine)	MEK	Mineral acids	Nitric acid up to 10%
Organic acids (many)	Phosphates	Phosphoric acid up to 100%	Potassium hydroxide
Salts	Sodium hydroxide	Sodium hypochlorite up to 10.5%	Sulfides
Sulfuric acid up to 98%	Water — fresh, waste, non-potable	White liquor	

** Call or email for a complete chemical resistance list.*

8. MIXING

Mixing	Mix thoroughly on a non-porous surface, ensuring the hardener (liquid component) is fully and evenly distributed through the resin. Streaks or unmixed resin will not cure.
Mix ratio	3:1 (A to B) by volume
Thinning	Do not thin.

Pot life

Temperature	Pot life
40 °F (4 °C)	50 minutes
75 °F (24 °C)	30 minutes
92 °F (33 °C)	14 minutes

** Do not keep the blended paste in the original container unless immediate use is planned — exothermic heat created during cure will considerably shorten the pot life.*

9. APPLICATION GUIDELINES

Job-site conditions may require adjustments to achieve the desired result. PIPESEAL is designed for trowel or spatula application followed by heat cure.

Trowel	Apply with a trowel onto and around the leaking area. Press firmly to displace entrapped air and force material into the crack or hole.
Heat cure	Once applied, cure PIPESEAL with a non-flammable heat gun or hair dryer directed at the repair.
Cure indicator	As heat is applied, the uncured gloss surface turns matte. The change to a matte texture indicates full cure.
No mechanical aids	Wrapping, clamping and plugging are not required.

10. CURE SCHEDULE

Cure method	Heat activated — non-flammable heat gun or hair dryer
Time to full cure	5 – 15 minutes under applied heat
Cure indicator	Uncured gloss surface turns matte

11. PERFORMANCE DATA

Test / property	Result
ASTM D4541 — Pull-off adhesion	1,900 psi minimum
Pressure resistance	Greater than 1,200 psi
Flash point	Greater than 250 °F (121 °C)
VOC	0 g/L

12. CLEANUP & SAFETY

Cleanup	Use MEK or acetone. In case of spillage, absorb and dispose of in accordance with applicable local regulations.
Heat gun use	Use only a non-flammable heat gun or hair dryer. Keep open flame away from the repair and from solvents used in cleanup.
Safety	Read and follow all caution statements on this Technical Data Sheet and on the Safety Data Sheet for this product. Wear appropriate protective clothing, eye protection and gloves.

13. FIELD REFERENCE

Recommended application sequence

1. Depressurize and drain the line, then dry the repair area completely.
2. Abrade the pipe on and around the leak to create a mechanical profile, then degrease and wipe dry.
3. Mix Part A and Part B at 3:1 by volume on a non-porous surface until no streaks remain.
4. Trowel the paste onto and around the leak, pressing firmly into the hole or crack.
5. Build the paste out past the edges of the defect and onto sound pipe on all sides.
6. Apply heat with a non-flammable heat gun until the gloss surface turns matte.
7. Confirm the matte appearance across the full repair before returning the line to service.

Key field notes

- PIPESEAL will not reach full cure without applied heat. Ambient cure is not the intended method.
- Pot life shortens sharply as temperature rises — 14 minutes at 92 °F against 50 minutes at 40 °F.
- Mix only what can be placed within the pot life for the working temperature.
- For refrigerant lines, unusual substrates, immersion service or chemical exposure, contact Dynesic Technical Service before application.

14. ABOUT DYNESIC TECHNOLOGIES

Dynesic produces exceptional chemically engineered coatings, adhesives and sealants offering premium corrosion protection, while being safe for the environment and safe and easy to apply. Dynesic Technologies can be found protecting steel, ductile and concrete substrates worldwide.

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