ARGOSY INTERNATIONAL
DELIVERING PERFORMANCE

Technical Data Sheet
POXPLUG™ Epoxy Putty

POXPLUG™ Composite Repair System

POXPLUG™ is a two-component, epoxy-based repair putty designed for quick and durable sealing of leaks, holes, cracks, and dents in metal, wood, glass, ceramics, and many plastics.

Parts **A** and **B** are coaxially extruded and activated by kneading until uniform in color.

POXPLUG™ cures in approximately **5 minutes** (or **20 minutes for POXPLUG™ UW**) and hardens to a steel-like finish within **20 minutes** (45 minutes for UW). Once cured, it forms a rigid, permanent bond that withstands continuous temperatures up to **250°F (121°C)** and remains effective even **underwater.**

Key Features & Benefits

After one hour, cured **POXPLUG™** can be:

- Drilled
- Tapped
- Filed
- Sanded

Cured **POXPLUG™** is resistant to:

- Most hydrocarbons
- Ketones
- Alcohols
- Esters
- Halocarbons
- Fresh and salt water
- Dilute acids and bases

Typical Applications

Industrial & Maintenance

- Rapid, field-applied repair of leaks in pipes, tanks, and process equipment handling water, oil, air, or fuel
- Filling cracks, holes, and surface defects in metal, concrete, and composite components
- Rebuilding worn or damaged flanges, housings, and pump casings
- Providing strong, machinable repairs where welding or hot work is impractical

Marine & Underwater

- Emergency leak sealing on boat hulls, valves, and fittings using POXPLUG™ UW formulation
- Repairing or patching corroded or eroded areas on marine pipelines and submerged steel structures
- Bonding and rebuilding underwater equipment surfaces exposed to salt or fresh water

Automotive & Transportation

- Repairing engine blocks, radiators, fuel tanks, and other metallic parts subject to vibration and thermal cycling
- Restoring worn threads, mounting points, or mechanical interfaces
- Forming durable, chemical-resistant patches where quick turnaround is required

Construction & Utilities

- Sealing joints, valves, or fittings in plumbing, HVAC, and mechanical systems
- Anchoring or patching concrete, ceramic, or glass surfaces exposed to moisture or chemical attack
- Providing rapid-setting repairs for on-site maintenance in water and wastewater facilities

Properties

All data below are based on laboratory conditions at room temperature (25°C / 77°F). Field conditions may significantly affect performance. Field testing is strongly recommended prior to use.

Property	Typical Value / Description	Test Method
Work Life	2–5 minutes (20–30 minutes for UW) at 25°C (77°F)	—
Application Temperature	4–52°C (40–125°F)	—
Cure Time	20 minutes (45 minutes for UW) at 25°C (77°F)	—
Service Temperature	–40°C to 121°C (–40°F to 250°F)	—
Compressive Strength	12,000 psi	ASTM D695
Adhesive Lap Shear Strength	800–1,000 psi	ASTM D1002
Hardness	70–80 Shore D (65–75 for UW)	ASTM D2240
Electrical Resistance	30,000 MΩ	ASTM D257
Dielectric Strength	300 volts/mil	ASTM D149
Shrinkage	<1%	ASTM D2566
Approx. Cook-Off	0%	—
Shelf Life	1 year (unopened)	—
Recommended Use	Rapid, durable sealing of leaks	—
Packaging	¾″ Ø × 7″ stick	—
Avoid Use On	Surfaces subject to high vibration or frequent thermal cycling	—

Caution

Some individuals may experience mild skin irritation from contact with this compound. Use appropriate personal protective equipment (PPE) and refer to the Safety Data Sheet (SDS) before handling.

Application Instructions

Prior to application, clean and abrade the surface to which the putty will be applied.
Use latex or nitrile gloves to avoid contact with skin. Always use proper PPE.

1. Cut off required amount
2. Remove protective plastic
3. Mix the two components with gloved fingers until the color is uniform
4. Apply the material to the repair surface, working it into any crack or defect
5. Smooth with gloved fingers or the palm of your hand. If necessary, dampen your gloves to aid in finishing the surface
6. Continue working with the material until it begins to cure
7. When fully cured, the material can be sanded or trimmed

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Disclaimer:

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