



Manufactured by:  
**Eclectic Products, Inc.**  
 Pineville, LA 71361

**Made in the USA**

800.767.4667 - Technical Services

[www.eclecticproducts.com](http://www.eclecticproducts.com)

[www.goopit.com](http://www.goopit.com)

# TECHNICAL DATA SHEET

**Amazing GOOP® Epoxy  
PLUMBER'S WELD®**

## PRODUCT DESCRIPTION

**PLUMBER'S WELD®** is a special formulation of super strength epoxy combined with aluminum particles for the cold welding of steel, aluminum, castings, iron, brass, bronze, copper, pewter, wood, ceramic, most plastics, porcelain and glass. This metallic gray adhesive putty exhibits superior bonding strength to fill holes, gaps and dents without shrinkage. PLUMBER'S WELD is impervious to water, grease, fuel, oil detergents and most chemicals. Once cured, PLUMBER'S WELD can be sawed, drilled, tapped, machined, file sanded and painted with most paints and will not rust or corrode.

## PRODUCT CHARACTERISTICS and BENEFITS

<b>Non-sag</b>	Works great in vertical or overhead applications
<b>100% solids</b>	Will not shrink and maintains strength after full cure
<b>Chemical resistant</b>	Can be used on or around objects exposed to gasoline, diesel fuel, motor oils, transmission and hydraulic fluids, antifreeze and most chemicals
<b>Heat resistant</b>	Apply to objects reaching temperatures as high as 250°F (121°C) intermittently
<b>Waterproof</b>	May be applied under water and remains waterproof after full cure

## PHYSICAL PROPERTIES

<b>Non-volatile content</b>	100%
<b>Compressive strength</b>	36,000 psi
<b>Compressive ultimate strain</b>	20%
<b>Tensile strength</b>	7,450 psi
<b>Tensile modulus</b>	362,000 psi
<b>Shear strength</b>	2,700 psi
<b>Flexural strength</b>	7,750 psi
<b>Flexural modulus</b>	25,000 psi
<b>Elongation</b>	3%
<b>Barcol hardness</b>	70
<b>Modulus of elasticity</b>	2.0 x 10 <sup>5</sup> psi

## CHEMICAL RESISTANCE (\*After 30 days immersion in chemicals at 70°F (21°C))

	<b>Weight Change, %</b>	<b>Flexural* strength psi, (kg/cm)</b>	<b>Flexural* strength retention</b>
Sulfuric Acid, 3%	+0.96	60,000 (4,219)	83%
Sodium chloride, 10%	+0.54	70,750 (4,975)	98%
Distilled Water	+0.75	67,700 (4761)	94%
Nitric Acid, 10%	+1.11	53,350 (3,752)	74%
Hydrochloric Acid, 10%	+0.81	49,450 (3,477)	68%
Acetic Acid, 5%	+2.23	57,000 (4,008)	79%
Hydrogen Peroxide, 3%	+0.90	66,400 (4,669)	92%
Petrohol 99 (MIL-F-5566)	0.00	74,900 (5,267)	100%
Hydrocarbon Test fluie (MIL-H-3136)	+0.02	74,400 (5,232)	100%
Ethylene Glycol (MIL-E-5559)	0.00	73,700 (5,183)	100%

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## WORKING PROPERTIES

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Mixing ratio	1 to 1 by volume
Pot life (working time)	20 minutes @ 70°F (21°C)
Natural color	Silver Gray
Cure time	2.5 hours @ 70°F (21°C)

## DIRECTIONS FOR USE and APPLICATION NOTES

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Always test a small area before full use.

- Step 1** Surface should be clean, dry and free of dirt. Roughen surface for optimum adhesion.
- Step 2** Mix equal amounts by volume, side A to side B, in clean, round containers, preferably new paper cups or buckets. See product package instructions for accurate mixing times.
- Step 3** NOTE: Sufficient stirring and mixing is the most important step for satisfactory results with PLUMBER'S WELD. While mixing, scrape sides and bottom often and use a fold-into-center motion while stirring.
- Step 4** Once thoroughly mixed, you have approximately 20 minutes working time at 70°F (21°C) to complete project.
- Step 5** At 70°F (21°C), allow 2.5 hours before handling. At lower temperatures allow additional time for curing or supply moderate (80°F (27°C) to 100°F (38°C)) local heat source (such as heat lamp, electric heater, etc.).
- Step 6** Clean tools with acetone or lacquer thinner. Use plenty of soap and water to remove epoxy from skin.

For technical assistance, call 800.767.4667.

- Please read all directions before using. Use in well-ventilated area only.
- Best when used between 60°F (15°C) and 85°F (30°C). Thick coats cure faster than thin coats.
- DO NOT change ratio or add any solvents.

## HAZARDS

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This product contains epoxy resin and amine hardener. Before working with this product, read and become familiar with information concerning hazards, proper use and handling. To request an MSDS, please send an Email to [msds@eclecticproducts.com](mailto:msds@eclecticproducts.com) or call 800.333.9826.

## LIMITED WARRANTY

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The product is warranted against any defect in materials or workmanship under normal use and service for a period of 180 days after the date of purchase. The product is also warranted under any implied warranties provided under applicable state law, including, without limitation, the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, for a period of 180 days after the date of purchase. This warranty covers only the original buyer of the product. For warranty service, the buyer should contact the store where the product was purchased, or write Eclectic Products, Inc. P.O. Box 4450, Pineville, LA 71360 or call 800.767.4667. This warranty gives you specific legal rights, and you also have other rights, which vary from state to state.