



# Technical Information



### Physical Properties

Non-Volatile Content.....	100%
Flexural Strength.....	7,750 PSI
Flexural Modulus.....	250,000 PSI
Tensile Strength.....	7,450 PSI
Tensile Modulus.....	326,000 PSI
Elongation.....	3%
Modulus of Elasticity.....	2.0 x 10 <sup>5</sup> PSI
Compressive Strength.....	36,000 PSI
Compressive Ultimate Strain.....	20%
Shear Strength.....	2,700 PSI
Barcol Hardness.....	70

### Working Properties

Mixing Ratio.....	1 to 1 by volume
Pot Life (Working Time).....	60 minutes @ 70° F
Natural Color.....	Metallic Grey

### Adhesion Properties

Bond Strength (Mild Steel to Mild Steel).....	1,750 PSI
Bonds to: Wood-Steel-Aluminum-Fiberglass-Concrete-Styrofoam-Tile-Ceramics-Most Plastics	

### Chemical Resistance (Immersion, 30 days at 25°C.)

Weight Change, %	Weight Change, %
Sulfuric Acid, 3%.....+0.96	Hydrogen Peroxide, 3%.....+0.90
Sodium Chloride, 10%.....+0.54	Sodium Hydroxide, 1%.....+0.60
Distilled Water.....+0.75	Sodium Hydroxide, 20%.....+0.40
Nitric Acid, 10%.....+1.11	Petrolol 99.....+0.00
Hydrochloric Acid, 10%.....+0.81	Hydrocarbon Test Fluid.....+0.02
Acetic Acid, 5%.....+2.23	Ethylune Glycol.....+0.0
	Hydraulic Oil.....+0.07

## HIGH TEMP METALIZED EPOXY PUTTY

### SUPERWELD® (Weld Without Heat)

**USE:** Cold welding of steel, aluminum, casting, iron, brass, bronze, copper, and pewter. Also bonds to wood, ceramic, most plastics.

**FEATURES:** SUPERWELD® is a metallic grey adhesive Putty with super-strong bonding that fills holes, gaps and dents without shrinkage, and will not rust or corrode. SUPERWELD® is impervious to; water, gasoline, diesel fuel, motor oils, transmission and hydraulic fluids, antifreeze, and most chemicals. Can be sawed, drilled, tapped, machined, filed, sanded and painted. Easy 1:1 mix ratio.

### Tips

- For better adhesion always rough up surfaces with course sandpaper before applying SuperWeld®.
- Improper mixing and incorrect portions are really the only two reasons a mixture of SuperWeld® will not cure hard. **Ideal Method:** Measure equal parts brown side with grey side in middle pot provided in package. Stir for 2 1/2 minutes by the clock scraping sides, bottom and wiping stir sticks off on side of mixing pot with an occasional folding action into center.
- Be patient, thin applications will always cure slower than thick ones.

For example:

- 1/4" thick repairs - allow 4 to 8 hours @ 70°
- 1/32" thin repairs -allow 24 to 48 hours @ 70°



#SW850	2oz	\$6.95 EA
#SW853	pint	\$38.95 EA
#SW854	quart	\$67.50 EA

carGo

# QuikSteel

## STEEL REINFORCED EPOXY PUTTY

**Dries Steel Hard in 15 minutes**

**Ready to Drill & Tap in 1 Hr.**

**Non-Liquid, 1 Part Putty – No Waste**

**\$5.50 EA** Part No. UB6002 2 oz. Tube

### DIRECTIONS:

### SETS UP EVEN UNDER WATER

- For best adhesion, clean and roughen bond area prior to application.
- Twist off desired amount.
- Knead to uniform color.
- Repairs should be in place before hardening begins. (usually within two minutes)
- Can be drilled, filed, tapped, machined, etc. after one hour.
- For a smooth surface, finely rub with tap water or use a damp tool or cloth prior to hardening.
- For underwater application, work the mixed epoxy forcefully into the substrate and hold until adhesion begins to take affect.

## Lab-metal

**Metal repair putty** Spreads like paste, hardens into metal. Adheres to metal, wood, plastic, glass. Apply right from the can. No mixing of two parts, no measuring or heat required. Lab-metal can be milled, drilled, tapped, ground, and sanded smooth.

Will not shrink or crack. Water resistant, rustproof. Withstands heat to 350°F. Thin with Lab-solvent for brushing or spraying a metallic coating. Many applications may be made from a single can simply add Lab-solvent before covering. Workability of Lab-metal is enhanced by dipping applicator into Lab-solvent. Durable, permanent filler for patching seams and cracks: rebuilding worn metal surfaces; repairing dented metal; finishing welds; filling holes and imperfections in metal castings. *Packaged in 6 oz., 12 oz., 24 oz., 48 oz., gallon, and 5 gallon containers.*

## Hi-Temp Lab-metal

**Repair compound for high-heat applications** One-part metal putty able to withstand temperatures in excess of 1000°F. Apply directly from the can with a putty knife, Can be machined, ground, filed, and sanded. Ideal for repairs in powder coating, metal working, welding, fabricating, heating, construction, die casting, and mold refinishing which may be subjected to high temperatures. Used to repair fabricated parts,



Packaged in 14 oz and 24 oz. containers.

core boxes, boilers, mufflers, exhaust systems, molds, wood and coal burning stoves, grills, engines, radiators, and industrial ovens.

Spreading Lab-metal, to fill -holes and depressions, or to rebuild worn surfaces:

Brush painting Lab-metal, as a primer surface or to provide a tough metal coat.

Spray painting Lab-metal, to rustproof large surface areas:

Increasingly, Lab-metal and Hi-Temp Lab-metal are being used as fillers in the powder coating process. For example, the metal seams on parts designed for a new metal-fabricated Walt Disney World ride needed to be filled prior to being powder coated. The plastic filler used by the **Powder coaters have finally found a filler that withstands the heat... Lab-metal®**

### Conductivity:

A nonconductor at normal voltage. Not considered an insulator. Accepts ground for powder coating.

Lab-metal V.O.C. ... 293 grams/litre  
Hi-Temp Lab-metal V.O.C..... 152 grams/litre

### Lab-metal

6 oz	#10100	\$7.50 EA
12 oz	#10101	\$12.95 EA
24 oz	#10102	\$23.00 EA
48 oz	#10103	\$35.00 EA
Gallon	#10104	\$125.00 EA
5 Gallon	#10106	\$475.00 EA

### Hi-Temp Lab-metal

14 oz	#11101	\$24.50 EA
24 oz	#11102	\$37.60 EA

## Lab-solvent

Pint	#20102	\$8.95 EA
gallon	#20103	\$49.99 EA
5 gallon	#20104	\$198.90 EA



**Thinner for Lab-metal, metal cleaner** A blend of solvents for thinning Lab-metal to paint consistency for brushing or spraying. Surfaces cleaned with Lab-solvent provide superior adhesion for Lab-metal and Hi-Temp Lab-metal. Cuts and flushes oil, grease, and dirt off of precision tools, bearings, gears, motors, condensers, controls, and other valuable equipment.