

Technical Data Sheet



Eclectic Products, Inc.
Manufacturing Facility
101 Dixie Mae Drive
Pineville, Louisiana
eclecticproducts.com
800.349.4667

ISO 9001:2008
Compliant
Quality Management
Systems

Administration Office
Eugene, Oregon
eclecticproducts.com
800.693.4667



Net Wt 4.0 oz Kit

AMAZING GOOP[®] AUTOMOTIVE

EPOXY PASTE

PRODUCT DESCRIPTION

AUTOMOTIVE EPOXY PASTE is a special non-sag 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 primer gray epoxy exhibits superior bonding strength to fill holes, gaps and dents without shrinkage. **AUTOMOTIVE EPOXY PASTE** is impervious to water, grease, fuel, oil detergents and most chemicals. Once cured, it can be sawed, drilled, tapped, machined, file sanded and painted with most paints and will not rust or corrode.

WHERE TO USE / APPLICATIONS

Automotive Epoxy Paste can be used for: cold welding, radiator seams, engine block, metal caps and gas lines, garden and metal tools, auto bodies and bike repairs. Use on: metals, metal castings, most plastics and much more.

FEATURES AND BENEFITS

NON-SAG – works great in vertical or overhead applications

100% SOLIDS – will not shrink and maintains strength after full cure

CHEMICAL RESISTANT – can be used on or around objects exposed to gasoline, diesel fuel, motor oils, transmission and hydraulic fluids, antifreeze and most chemicals

HEAT RESISTANT – apply to objects reaching temperatures as high as 250 °F (121 °C) intermittently

WATERPROOF – remains waterproof after full cure

TECHNICAL INFORMATION

PHYSICAL PROPERTIES	
Non-volatile content:	100%
Compressive strength:	36,000 psi
Compressive ultimate strain:	20%
Shear strength:	2,700 psi
Tensile strength:	7,450 psi
Elongation:	3%
Modulus of elasticity:	2.0 x 10 ⁵ psi
Heat resistance:	250 °F / 121 °C
WORKING PROPERTIES	
Color:	Primer Gray
Packaging:	Net Wt 4.0 oz Kit
Mixing ratio:	1:1 by volume
Pot life (working time):	20 minutes @ 70 °F (21 °C)
Cure time:	2.5 hours @ 70 °F (21 °C)
Shelf life:	3 years from manufacturing date (unopened)

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CHEMICAL RESISTANCE *after 30 days immersion in chemicals at 70 °F / 21 °C)			
Chemical	Weight Change, %	Flexural* Strength psi, (kg/cm)	Flexural* Strength retention
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 (4,761)	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-05566):	0.00	74,900 (5,267)	100%
Hydrocarbon Test Fluid (MIL-H-3136):	+0.02	74,400 (5,232)	100%
Ethylene Glycol (MIL-E-5559)	0.00	73,700 (5,183)	100%

DIRECTIONS and APPLICATION NOTES

Read Directions and always test a small area before full use.

- Step 1 Clean area to be repaired. Remove all contaminants such as oil, grease, dirt, rust and paint.
- Step 2 For best results, roughen surface with coarse sandpaper or file.
- Step 3 Use a mixing stick (or similar object) to transfer equal portions of Resin (Side A) and Hardener (Side B) to a clean mixing container (preferably a new paper cup or bucket). If only a portion of the epoxy is necessary for a small application, reseal remaining epoxies in their individual containers for later use.
- Step 4 Stir and mix very thoroughly for 2 minutes. Always use a container for mixing, so both the Resin (Side A) and the Hardener (Side B) can be blended thoroughly.
- Step 5 Set/working time is: 20 minutes @ 70 °F/21 °C.
- Step 6 Epoxy can be sanded after fully cured. Wear dust mask when sanding.
- Step 7 Clean uncured epoxy from mixing tools with small amounts of acetone or lacquer thinner. Cured material may be removed by cutting or scraping

For technical assistance, call 800.767.4667.

NOTES: If contents on either side appear crystallized or solid, apply moderate heat (120 to 130 °F/49 to 54 °C) until contents return to soft putty state. Allow to cool before mixing Side A with Side B.

Do not apply fiberglass (polyester) resins over epoxy. Adhesion is poor and fiberglass resins may attack and soften epoxy resins or putties, such as AMAZING GOOP® Epoxy Paste.

AMAZING GOOP® AUTOMOTIVE Epoxy Paste may be tinted with powder colorants, most water-based colorants and food dye. It holds its bond even underwater. Cure epoxy above water 3 to 7 days before submerging. Stays put - no slump or sag.

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EPOXY PASTE

HEALTH and SAFETY

DANGER – CORROSIVE. SEVERE EYE AND SKIN IRRITANT. POTENTIAL SKIN SENSITIZER. Side A contains epichlorohydrin based epoxy resin. May irritate eyes and skin. May produce allergic skin reaction. Side B contains aliphatic amine resin. Harmful if inhaled. May cause severe irritation to eyes and skin. Use with adequate ventilation.

First Aid: In case of contact, flush eyes or skin with plenty of water. If breathed in, move person to fresh air. Get medical attention if symptoms persist. Keep out of reach of children.

Before working with this product, read and become familiar with information concerning hazards, proper use and handling.

Product MSDS is available on line at:

eclecticproducts.com/_msds/automotive_english_hardener_resin.pdf; to request a hard copy of the MSDS, please send an e-mail to msds@eclecticproducts.com or call 800.333.9826.

LIMITED WARRANTY

The product is warranted against any defect in materials or workmanship under normal use 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 71361 or call 800.767.4667. This warranty gives you specific legal rights, and you also have other rights, which vary from state to state.