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## **AeroMarine Structural Epoxy Adhesive #132**

AeroMarine 132 is an aluminum filled, paste viscosity epoxy system primarily used for structural bonding of metals, wood, and most plastics. AeroMarine 132 is used for hundreds of industrial bonding applications and offers excellent adhesion to porous or non-porous surfaces. It can be applied to vertical surfaces without sagging and cures overnight with negligible shrinking. Once cured, AeroMarine 132 offers good machining qualities (sanding, drilling, tapping), and resists alkalies, mild solvents, and dilute acids. AeroMarine 132 can be drilled, tapped, and machined. *AeroMarine 132 is not for use in fuel tanks or lines because it does not tolerate submersion or continual exposure to fuels.*

### **Uses include:**

- Structural bonding for metals, especially steel and aluminum
- Bonds to most plastics except polyolefins, silicones and Teflon
- Stopping leaks in water pipes, valves and tanks
- Bonding similar and dis-similar surfaces
- Filling metal joints, dents
- Anchoring bolts in concrete
- Bonding wood
- Repairing broken metal castings

The mix ratio is a simple 1:1 by either weight or volume. AeroMarine 132 is a grey color and has a paste-like consistency. It has a working life of about 20 minutes, and sets hard in a few hours.

### **Specifications:**

Mix Ratio:	Equal parts by weight or volume
Mixed viscosity:	Firm paste
Color:	Grey
Work life:	20minutes@70F
Cure time:	16 hours@70F
Shear strength:	2500psi
Tensile Strength	10,500psi
Flexural strength:	17,500psi
Compressive Strength	7,500 psi
Modulus of Elasticity in Tension	165,000 psi
Modulus of Elasticity in Compression	160,000 psi
Maximum use temperature	230F

Applying mild heat will cure AeroMarine 132 faster. For instance, it can be fully cured in two hours at 160F. Post curing, although not necessary, after AeroMarine 132 has cured at room temperature, heating the epoxy to 150° F for 4 to 8 hours will increase physical properties and performance. Let cool to room temperature before handling bonded substrates, machining, etc.

### **Directions for use:**

Mix equal parts AeroMarine 132 resin and hardener until the resulting mixture is a uniform grey color. Most substrates should be lightly abraded for best results. Epoxy does not stick to polyethylene, polypropylene, or Teflon.

## **For industrial or professional use only**

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