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AeroMarine Products AM150 Silicone High Temp/Encapsulation RTV Rubber

Product Description

AeroMarine Products AM150 Silicone High Temp/Encapsulation Rubber is a two component, room temperature platinum (addition) cure silicone material. The cured rubber is flame resistant and has excellent mechanical properties and good shelf-life stability. As in all similar applications, a small test to determine the suitability of this product for a specific application is recommended. **DO NOT use AM150 for lead molds! Do NOT use for making baking or microwave pans!**

Key Features

Simple one to one mix ratio
Low viscosity
Wide operating temperature range
Flame resistant
Picks up fine detail
Excellent dimensional stability

Main Applications

- Potting electrical circuits
- Ideal for marine and automotive use and for making molds for low-melt metals like pewter and tin
- Vibration and moisture protection

Typical Properties

Uncured properties	"A" component	"B" component
Appearance	Black	Buff
Viscosity, cps	2000	1000
Catalyzed properties		
Specific gravity	1.34	
Pot life	~45 minutes	
Cure time	12 Hours	
Typical cured properties		
Durometer	50	
Tensile Strength, psi	>450	
Elongation, %	>150	
Tear B, pli	~25	
Linear shrinkage	<0.3	
Useful Temperature Range	-50F to 500F	
Thermal Conductivity (@77F to 212F)	BTU-FT F: 7.5X10 ⁻⁴	
Typical electrical properties		
Dielectric Strength volts/mil	450	
Dielectric Constant, 1 KHz	3.15	
Volume Resistivity ohm/cm	1.0 x 10 ¹⁵	
Linear shrinkage	Nil	

Cure Inhibitors The following materials will inhibit the curing agent: sulfur compounds, organo-metallic salt-containing compounds, chloride solvents, amines, tin/condensation cured RTVs, and oil-based clays. Do not use latex gloves with AM150. You can determine cure inhibition by brushing a small amount of the mixed silicone onto the surface and let it cure. If the silicone remains gummy/tacky after the cure time, then the surface is inhibiting the silicone's cure.



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Shelf life: When stored into original containers, in a cool, dry place, the shelf life of AM150 is six months.

Measuring and Mixing:

Measure out by volume equal parts A and B into a clean plastic container. Once you have correctly measured both parts into the container, mix parts A and B together with a plastic or wooden stirring utensil. Scrape the sides and bottom of the mixing container so that the silicone is thoroughly mixed. Keep your stirring utensil on the bottom of the container to reduce the amount of air being mixed into the silicone. Mix for several minutes, scraping the sides and bottom frequently, until the silicone is a uniform color with no streaks.

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