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# STAR\*TECH P-233-1

## Thixotropic Epoxy Paste

### DESCRIPTION

Two part thixotropic general purpose thermally conductive epoxy paste for encapsulation applications of electric motors, stators, armatures, and coil ends. P-233-1 is a 100% solids product containing no volatile solvents, which might prove irritating to employees. P-233-1 can be colored to suit your desired application. This product may contain fillers that may settle over time. Product may need to be stirred before using. Customer must determine suitability of product before using.

Star\*Tech P-233-1 is a suitable offset for Dolph CR-1034H and Guardian 64.

### BENEFITS

**Available in Pre-measured kits**  
**Superior Electrical Properties**  
**Excellent Thermal Conductivity**

**Low Shrinkage**  
**Good Impact Resistance**  
**Excellent Chemical Resistance**

### TYPICAL PROPERTIES (cured 7 Days at 75<sup>0</sup>F.)

	<u>TEST METHOD</u>	<u>VALUE</u>
Mix Ratio, Resin to Hardener		
Parts by Weight:		100:7
Parts by Volume:		100:11
Viscosity (centipoise)	ASTM D2393	Thixotropic Paste
Part A:		80
Part B:		
Density (g./cc)	ASTM D1475	
Part A:		1.46
Part B:		0.99
Mixed:		1.43
Pot Life: 100 grams at 75 <sup>0</sup> F (minutes)	ASTM D2471	60
Color		
Part A:		Gray Paste
Part B:		Light Straw
Shore Hardness (D)	ASTM D2240	80
Lap Shear (psi)	ASTM D1002	
At 23°C:		2000psi
Shrinkage:		>0.5%
Tensile Strength	ASTM D638	9500psi
Elongation		2.0%
Coefficient of Linear Thermal Expansion	ASTM D696	20 x 10 <sup>-6</sup> in/in/°C
Dielectric Strength:	ASTM D149	>425 volts/mil at 0.125"
Volume Resistivity (ohms/cm <sup>3</sup> ):		6.3 x 10 <sup>14</sup>

200 Executive Drive • Waterloo, Indiana 46793 • Office: (260) 837-7833 • Fax: (260) 837-7834 • [www.star-technology.com](http://www.star-technology.com)

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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### **APPLICATION PROCEDURES**

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

*CAUTION:* Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

### **PRECAUTIONS**

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

### **RESIN AND HARDENER WARNING STATEMENT**

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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