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Bell Jar Repair Epoxy

Technical Data Sheet and Instructions

Catalog Number: 30106

Description: This product is a two-part, general purpose epoxy putty. Contrasting colored epoxy resin (Bar A) and hardener (Bar B) allow for easier and more accurate blending of the two components. Place the two bars side by side and cut off the desired amount. Pull back the protective film and blend the two components until a uniform color is achieved. After mixing and before hardening this product can be shaped, molded and sculpted as desired. Use damp fingers or tools to create a slippery feel for manipulation of the uncured material. The mixed epoxy sets in approximately 50 minutes and can be drilled, tapped, filed, machined and painted. The product is non-shrinking, resistant to many chemicals and bonds to many metals, glass, ceramics, wood and concrete.

Installation: *Surface preparation* – In order to achieve optimum adhesion, the surface should be solid, clean and free of grease or dirt. Scuffing or sanding the surface prior to cleaning helps insure a good bond.
Mixing – Rubber or plastic gloves are strongly recommended to be used when mixing and applying this product. Cut off desired amount. Mix ratio is 1:1. To mix, knead with gloved fingers until the material is a uniform color. If mixing is difficult, warm this product to or slightly above room temperature.

Warning!! When sanding cured putty on substrate, use protective eyewear and dust mask.

Application Properties	Results	Test Method
Work Life	45 – 60 minutes	
Shelf Stability @ 75°F	12 months minimum	
Mix Ratio	1:1 by weight or volume	
Hardness, Shore D	80 (full cure, 24 hours)	ASTM D 2240
Lap Shear Tensile Strength	460 lbs (on 1” x 1” x 1/16” steel) 275 lbs (on 1” x 1” x 1/16” aluminum)	ASTM D 1002
Compressive Strength	5,500 lbs/in^2	ASTM D 695
Density	1.9 g/cm^3	
Shrinkage	<1 %	ASTM D 2566
Non-Volatile Content	> 99%	
Electrical Resistance	30,000 megaohms	ASTM D 257
Dielectric Strength	300 volts/mil	ASTM D 149
Upper Temperature Limit	Continuous - 250°F ; Intermittent - 300°F	
Chemical Resistance	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	