

# STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

## BC-178

### One-Hour Set Time Armature Balancing Compound

#### DESCRIPTION

BC-178 is a two-part epoxy balancing compound for use in weight addition balancing of electric motor armatures. BC-178 has a smooth, fibrous, putty-like consistency, which keeps the compound from migrating during the balancing process. The two parts of the putty, parts A and B, are mixed 1:1 by volume or by weight. The Blue Part A and the Yellow Part B are easily mixed by hand until the color is a consistent Green. The BC-178 may then be placed on the motor armature as indicated until the armature is in balance. The working life of the mixed BC-178 is less than 1 hours depending upon mass and temperature. Overnight, BC-178 cures to a solid, which resists moisture and solvents. Mixed material can be frozen to slow cure during an 8 hour period. 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. BC-178 is in compliance with European Directive 2002/95/EC on the reduction of hazardous substances.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

<u>TYPICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>VALUE</u>
Working Life (hours):		1
Cure Time:		12 hours
Shore D Hardness:	ASTM D2240	85
Lap Shear [CRS to CRS] (psi):	ASTM D1002	1000
Tensile Strength (psi):	ASTM D638	1700
Compression Strength (psi):		6000
Weight Change upon Cure:		<0.02%
Part A:		
Specific Gravity (g/cc):	ASTM D1475	2.50
Viscosity (cps):		Putty
Color:		Blue
Part B:		
Specific Gravity (g/cc):	ASTM D1475	2.50
Viscosity (cps):		Putty
Color:		Yellow
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	2.50
Viscosity (cps):		Putty
Color:		Green
Mix Ratio:		
By Weight:		1:1
By Volume:		1:1
Shelf Life (months):		
Part A (in sealed container):		12
Part B (in sealed container):		12

**Spin Testing:** Compound was fully cured on the insulated copper windings of a 4.5 cm diameter motor armature. The armature is then spun at 375°F at 8,000 rpm. The test is denoted passing. There was no separation of the material to the windings.

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.

*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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