STAR Technology
FORMULATING • INNOVATIVE • SOLUTIONS

# ER2170

## Two Part Silicon Steel Alloy Filled Epoxy

**DESCRIPTION**

ER2170 is a high-performance epoxy composite, silicon steel alloy filled epoxy system used for repairing and rebuilding machinery equipment. ER2170 has excellent chemical resistance. ER2170 Is used for applications such as bearings, casings, shafts, pipes, and hydraulic rams. For best results coating should be post cured at elevated temperature.

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

| **TYPICAL PROPERTIES** | TEST METHOD | VALUE |
|---|---|---|
| Gel Time [100g @ 23C] (min): | | 60 |
| Cure (Hours): | | 24 |
| Post Cure [150°C] (min): | | 30 |
| Shore D Hardness: | ASTM D2240 | 86 |
| Part A: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 2.67 |
| Viscosity (cps): | ASTM D2393 | Paste |
| Color: | | Dark Gray |
| Part B: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 2.03 |
| Viscosity (cps): | ASTM D2393 | Paste |
| Color: | | Light Gray |
| Mixed Product: | | |
| Specific Gravity (g/cc): | ASTM D1475 | 2.54 |
| Color: | | Gray |
| Dielectric Constant [1V, 10 kHz]: | ASTM D150 | 7.71 |
| Surface Resistivity [500V for 1 min] (Ω): | ASTM D257 | $1.47X10^{15}$ |
| Volume Resistivity [500V for 1 min] (Ωcm): | ASTM D257 | $2.27X10^{14}$ |
| Dielectric Breakdown Strength [2000V/s] (V/mil): | ASTM D149 | 60 |
| Ultimate Compressive Strength (MPa): | ASTM D695 | 108 |
| Glass Transition Temperature (°C): | | 117 |
| Mix Ratio: | | |
| By Weight: | | 100:20 |

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

# ER2170

## Two Part Silicon Steel Alloy Filled Epoxy

**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.

For 1# and 2# kits, add all of Part B to Part A and mix thoroughly.

*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.



200 EXECUTIVE DRIVE, WATERLOO, IN 46793
P 800.741.7833 OR 260.837.7833 F 260.837.7834
WWW.STAR-TECHNOLOGY.COM