

Product  
Bulletin

# ER1650

## THIXTROPIC BUTTER-ON EPOXY PROTECTIVE COATING, IDEAL FOR MOTOR WINDING PROTECTION IN HARSH ENVIRONMENTS

### GENERAL DESCRIPTION

ER1650 is a two part, solvent free, thixotropic butter-on epoxy designed to protect motor windings from, abrasives, vibration shock, harsh chemicals, solvents, oils and jet fuels.

ER1650 is a departure from the conventional butter-on epoxies, because it is engineered to self level to smooth void free coating and does not require constant toweling or solvent wiping to achieve a glossy even finish. This unique formulation stays exactly where it is placed and will not run out of coil windings or stator slots. A tenacious bond is formed between ER1650 and substrates that is both protective and long lasting.

#### INSTRUCTIONS FOR USE:

1-Preheat stator to 150-175°F, or if preferred apply @ room

Temperature.

2- Mix equal parts by weight or volume ER1650 resin base

White to ER1650 catalyst black, stir until thoroughly Mixed.

3-Butter-on mixed ER1650 by means of spatula or brush

Forming an even coating thickness, being sure to fill in all

Gaps and slots.

4-Air dry at room temperature or bake at 150-175° F.

### STORAGE AND HANDLING

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Shelf Life: At least One (1) year from the date of manufacture when stored in the original package at ambient temperature. Keep container closed when not in use. Store away from excessive heat and humidity

**AVAILABILITY and PACKAGING;** Available for immediate delivery From stock in

Premeasured, Qrt, gallon, 5 gallon and 55 gallon

#### PRICE ON REQUEST

### SPECIFICATIONS

#### HANDLING CHARACTERISTICS

Mix ratio parts of catalyst to 100 parts

Resin by weight:.....100

Workable Pot Life, 100 g @ 25°C:..... 40 min.

Color, mixed.....Gray

Mixed Viscosity@25° C.....paste

#### CURE SCHEDULE

R room temperature for 24 hours or 1 hour @60° C

#### PHYSICAL CHARACTERISTICS

Specific Gravity, 25°C / 25°C: ..... 1.40

Tensile Strength, psi: ..... 38,000

Compressive Strength, psi:..... 20,500

Linear Shrinkage in/in.....0.002

Heat Distortion temp °C.....90

#### ELECTRICAL CHARACTERISTICS

Dielectric Strength, volts / mil: .....485

Dielectric Constant, 103 cycles: ,Hz.....0.01

Dissipation factor 60HZ..... 0.015

Volume Resistivity, ohm · cm: ..... 4.0 x 10<sup>14</sup>

#### THERMAL CHARACTERISTICS:

Thermal conductivity, BTU/hr./Ft<sup>2</sup> / ° F/in.....4.1

Thermal expansion Co- efficient 10<sup>-5</sup>/ ° C.....4.9

Operating Temperature range. °C.....-60 to 160

#### WATER ABSORPTION

24 hrs 96% RH, % weight gain.....0.8

### THIS PRODUCT IS SOLD FOR INDUSTRIAL USE ONLY, KEEP OUT OF REACH OF CHILDREN.

Read and understand all MSDS before use. Liquid uncured epoxy material may cause skin sensitization or other allergic responses. Prevent all contact with skin or eyes. If contact occurs, flush immediately with plenty of water and get immediate medical attention.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operation conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention governed by any patent, without the authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the Chemical Manufacturers Association's Responsible Care® program.